TAB 1

Notice of Intent

STATE OF NEW HAMPSHIRE BEFORE THE PUBLIC UTILITIES COMMISSION

PITTSFIELD AQUEDUCT COMPANY, INC.

DOCKET NO. 20-

RATE PROCEEDING

NOTICE OF INTENT TO FILE RATE SCHEDULES

Pursuant to N.H. RSA 378:3 and N.H. Code Admin. R. 1604.05(a) (requiring thirty days' notice), Pittsfield Aqueduct Company, Inc. (PAC), hereby gives notice of its intent to file rate schedules with the New Hampshire Public Utilities Commission. Pursuant to N.H. Code Admin. R. 1604.05(c), such rate schedules will be filed within sixty days of this notice.

Pursuant to RSA Chapter 378 and N.H. Code Admin. R. 1604.05(b), PAC will be seeking to increase its revenue requirement by approximately \$112,588.00, or 14.51%, above its last authorized revenue requirement. PAC's last rate case was in 2013 in Docket No. DW 13-128. The proposed increase averages to approximately 1.95% per year since PAC's last rate case.

PITTSFIELD AQUEDUCT COMPANY, INC.

By its attorney,

Maucia aBrown

Dated: September 17, 2020

Marcia A. Brown NH Brown Law, PLLC 20 Noble Street Somersworth, NH 03878 (603) 219-4911/mab@nhbrownlaw.com

CERTIFICATE OF SERVICE

I hereby certify that a copy of this notice was emailed this day to the Office of the Consumer Advocate and to the Commission's electronic service list for initial filings.

Dated: September 17, 2020

Mauria & Brown

TAB 2

PAC Cover Letter

Docket No. 20-153 Exhibit 1



Environmental Law

Utility Law

Marcia A. Brown Attorney at Law

November 16, 2020

VIA ELECTRONIC DELIVERY

Debra A. Howland, Executive Director New Hampshire Public Utilities Commission 21 S. Fruit Street, Suite 10 Concord, N.H. 03301

Re: DW 20-153 – Pittsfield Aqueduct Company, Inc. Permanent Rate Proceeding

Dear Director Howland:

Pursuant to the Commission's temporary electronic filing requirements, enclosed please find for filing Pittsfield Aqueduct Company, Inc.'s PART Puc 1604 general rate schedules and other filing requirements. Hardcopies will be provided shortly for the Commission's convenience of review. Please add the attached contact information to the Commission's official service list.

Thank you for your assistance with this filing. Please do not hesitate to contact me if you have any questions.

Very Truly Yours,

Mauria aBrown

Marcia A. Brown

Enclosures cc: Docket-Related Service List for DW 20-153

Docket No. 20-153 Exhibit 1

Rate Proceeding Page 2 of 2

DW 20-153 Service List Additions:

Larry D. Goodhue Pittsfield Aqueduct Company, Inc. 25 Walnut Street Nashua, NH 03060-3347 larry.goodhue@pennichuck.com

Donald L. Ware Pittsfield Aqueduct Company, Inc. 25 Walnut Street Nashua, NH 03060-3347 donald.ware@pennichuck.com

Carol Ann Howe Pittsfield Aqueduct Company, Inc. 25 Walnut Street Nashua, NH 03060-3347 carolann.howe@pennichuck.com

Jay Kerrigan Pittsfield Aqueduct Company, Inc. 25 Walnut Street Nashua, NH 03060-3347 jay.kerrigan@pennichuck.com

Marcia A. Brown, Esq. NH Brown Law, PLLC 20 Noble Street Somersworth, NH 03878 mab@nhbrownlaw.com

John S. Clifford, Esq. Clifford Law Offices, PLLC 4 Little Rabbit Lane Johns Island, SC 29455 profilelaw@gmail.com

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TAB 4

Attestation

ATTESTATION REQUIRED BY PUC 1604.04

Pursuant to N.H. Admin. Rule Puc 1604.04, the undersigned executive in charge of utility accounts for Pittsfield Aqueduct Company, Inc. does hereby attest as follows:

I, Larry D. Goodhue, the officer in charge of the utility accounts of Pittsfield Aqueduct Company, Inc., affirm, based on my personal knowledge, information and belief, that the cost and revenue statements, and the supporting data submitted, which purport to reflect the books and records of the company, do in fact set forth the results shown by such books and records and that all differences between the books and the test year data and any changes in the manner of recording an item on the utility's books during the test year, have been expressly noted.

Date: November 12, 2020

Larry D. Goodhue, Chief Executive Officer Pittsfield Aqueduct Company, Inc.

STATE OF NEW HAMPSHIRE HILLSBOROUGH COUNTY

Subscribed and sworn to on this 12th day of November, 2020, before me,





My Commission Expires:

TAB 5

Petition for Temporary Rates

STATE OF NEW HAMPSHIRE

BEFORE THE

PUBLIC UTILITIES COMMISSION

Docket No. DW 20-153

Pittsfield Aqueduct Company, Inc.

Permanent Rate Proceeding

PETITION FOR TEMPORARY RATES

NOW COMES, Pittsfield Aqueduct Company, Inc. ("PAC" or the "Company"), pursuant to RSA 378:27 and 378:29 and in accordance with N.H. Admin. Rule Puc 203.07, hereby requests that the New Hampshire Public Utility Commission (the "Commission") set PAC's current rates, effective on a service rendered basis thirty days after the date of this filing, as temporary rates. In support of its petition, PAC states as follows:

1. PAC filed its notice of intent to file rate schedules with the Commission on September 17, 2020, which the Commission acknowledged by Secretarial Letter dated September 21, 2020. PAC is filing its rate schedules ("Rate Filing") to change its permanent rates contemporaneously with this petition.

2. RSA 378:27 authorizes the Commission to grant temporary rates if, in its opinion, the public interest so requires and the records of the utility on file with the Commission indicate it is not earning a reasonable return on its property used and useful in the public service. Moreover, RSA 378:27 allows the Commission to authorize effective dates as early as the date on which the petition for a permanent rate change is filed. *Pennichuck Water Works, Inc.*, Order No. 24,377 at 7 (September 30, 2004), citing *Appeal of Pennichuck Water Works*, 120 NH 562, 567 (1980). "Further, the analysis and investigation conducted by the Commission in a

temporary rate case need not be as intensive as that deemed necessary in a permanent rate proceeding." *Pennichuck Water Works, Inc.,* Docket No. DW 01-081, Order No. 23,770 at 5 (Aug. 31, 2001) (citation omitted). The Commission may rely on books and records already on file with the Commission. *Appeal of Office of Consumer Advocate*, 134 N.H. 651, 659 (1991) ("New Hampshire law allows the PUC in a rate case to rely on records and reports that a utility is required to file with it." "Included among those record and reports are the utility's annual reports.")

3. As is detailed in the accompanying testimony, and as measured under a conventional rate of return model, PAC's rate of return was 1.44 % for the Test Year (Adjusted Net Operating Income from 1604.06 Schedule 1 of \$46,620 divided by Consolidated Rate Base of \$3,234,472 derived on 1604.06 Schedule 3) as evidenced in 1604.06 Schedule A, Perm-Conventional filed with its permanent rate case schedules with no pro forma. This rate of return is far too low to cover principal and interest payments to PAC's parent, Pennichuck Corporation, as well as being far below the allowed Test Year Rate of Return of 3.74% as detailed on 1604.06 Schedule 1A. Moreover, as described in his testimony before the Commission in DW 19-084, (Pennichuck Water Works, Inc.) Mr. Larry Goodhue explained that the expense statements on file with the Commission don't reflect long-term debt owed to the parent. As Mr. Goodhue noted, the Statement of Income and Expense on file with the Commission is formulated around an investor owned utility that has a return on equity and depreciation expense in its revenue requirement. The income statement on file with the Commission does not accurately reflect the company's cash position. See Hearing Transcript May 13, 2020, DW 19-084 at pp. 23 -26. Similarly, PAC's books and records on file with the Commission don't accurately reflect the rate relief it needs.

2

4. As shown on PAC's Puc 1604.06 Schedules, Schedule A Perm-Conventional, PAC's 2019 test year revenue needs were \$820,029 after *pro formas* to the test year to allow for the rate making methodology approved in DW11-026. PAC's actual 2019 TY revenues, accounting for the City Bond Fixed Revenue Requirement ("CBFRR"), were \$771,874, exclusive of other Operating Revenue. Based on the rate-making methodology approved in DW 19-084, Schedule A Proposed, which PAC seeks, its revenue needs are \$862,927, exclusive of other Operating Revenues and actual revenues were \$771,874 exclusive of other Operating Revenues. These books and records clearly demonstrate an earnings deficiency for PAC, regardless of which ratemaking structure is used. Because PAC seeks to modify its ratemaking structure to that of its affiliate PWW, as approved in DW 19-084, the computation of the revenue deficiency results in a proposed revenue increase of 11.18%

5. Notwithstanding the fact that PAC's records and reports demonstrate a material revenue deficiency, PAC requests that the Commission fix and determine, pursuant to RSA 378:27, temporary rates at its current rate levels. See attached tariffs. The decision to accept current rates as temporary rates is in light of the economic developments of 2020 and are predicated on full recoupment at the conclusion of the rate case. This request to establish current rates as temporary rates (as opposed to some other rate level) is not presently a justiciable issue but PAC presumes that the Commission will suspend PAC's permanent rate tariffs before they go into effect and that the Commission will not on its own accord, pursuant to RSA 378:27, order temporary rates. PAC believes the instant petition and request that temporary rates be set at current rates will promote efficiency in this proceeding by avoiding the need for material proceedings related to any change in current rates.

3

6. As to an effective date for temporary rates, pursuant to RSA 378:3 "[u]nless the commission otherwise orders, no change shall be made in any rate, fare, charge or price, which shall have been filed or published by a public utility in compliance with the requirements hereof, except after 30 days' notice to the commission and such notice to the public as the commission shall direct.); *Appeal of Pennichuck Water Works*, 120 N.H. 562, 567 (1980) wherein the Court held that "[a]ccordingly, we hold that the earliest date on which the Commission can order temporary rates to take effect is the date on which the utility files its underlying request for a change in permanent rates." "In no event may temporary rates be made effective as to services rendered before the date on which the permanent rate request is filed."; and *Pennichuck Water Works, Inc.*, Docket No. DW 04-056, Order No. 24,377 (Sept. 30, 2004). In this case, PAC is filing its rate schedules and tariffs today, and it set the temporary rates to be effective thirty (30) days from today, December 17, 2020.

7. In conclusion, based on the books and records on file with the Commission, including the testimony attached hereto, PAC believes it has demonstrated that it is eligible for the temporary rate relief requested herein.

WHEREFORE, the Company respectfully requests that the Commission:

- A. Fix, determine, and prescribe, pursuant to RSA 378:27 and 378:29, temporary rates for PAC at its current rate levels, effective December 17, 2020;
- B. Order that temporary rates remain in effect until such time as the Commission issues a final order establishing permanent rates;
- C. Grant such other relief as is just and equitable.

Respectfully submitted,

Pittsfield Aqueduct Company, Inc.

By its Attorney, NH BROWN LAW, PLLC

Date: November 16, 2020 By:

Mauria aBrown

Marcia A. Brown, Esq. 20 Noble Street Somersworth, NH 03878 (603) 219-4911 mab@nhbrownlaw.com

CLIFFORD LAW OFFICES, PLLC

Date: November 16, 2020 By:

John S.G. Clifford, Esq. 4 Little Rabbit Lane Kiawah Island, SC 29455 (914) 584-1628 profilelaw@gmail.com

Certificate of Service

I hereby certify that on this day, a copy of this petition has been emailed to the official service list for this proceeding.

Date: November 16, 2020

Marcia aBrown

Marcia A. Brown, Esq.

Ninth Tenth Revised Page 38

PITTSFIELD AQUEDUCT COMPANY, INC.

Superseding Eight Ninth Revised Page 38

TEMPORARY GENERAL SERVICE – METERED TOWN OF PITTSFIELD SCHEDULE GM

Application:

This schedule is applicable to all metered water service in the Town of Pittsfield, NH, except municipal and private fire protection.

Character of Service:

Service shall consist of the production, treatment, and distribution of water for all residential, commercial and industrial requirements of customers whose premises abut any public street, road or way in which the Company has mains; provided, however, that such service shall only be rendered pursuant to the Terms and Conditions prescribed in other sections of this Tariff and the Rules of the New Hampshire Public Utilities Commission for Water Service.

Rates:

A minimum customer charge shall be made for each customer to whom service is rendered under this tariff, based on the meter size shown below:

<u>Size</u>	Mir	Monthly Minimum <u>Charge</u>	
5/8" 3/4" 1" 1 1/2" 2"	\$	24.49 34.89 52.69 95.09 147.10	
_ 3" 4"		273.29 447.87	
6" 8"	1	893.36 ,485.85	

Volumetric Rate:

In addition to the minimum charge, the volumetric charge, based on usage shall be:

Volumetric Charge

\$6.48 per 100 cu. ft.

Terms of Payments:

Bills under this rate are net; will be rendered monthly, and are due and payable at the office of the Company on the due date as stated on water bill.

Issued: July 22,2014November 16, 2020

Issued by: Donald L. Ware Donald L. Ware

Effective: July 22,2014 December 17, 2020 Title: Chief Operating Officer

Authorized by NHPUC Order No. 25,695-Docket No. DW 20-15313-128, dated July 22, 2014.

Docket No. 20-153

NHPUC NO. 5 WATER

Tenth Ninth Revised Page 39

PITTSFIELD AQUEDUCT COMPANY, INC.

Superseding Eight Ninth Revised Page 39

TEMPORARY MUNICIPAL FIRE PROTECTION SERVICE TOWN OF PITTSFIELD SCHEDULE FP-M

Application:

This rate is applicable to municipal fire protection in the Town of Pittsfield.

Character of Service:

The Company will exercise due effort to maintain at all times the normal pressures on the distribution system, but the Company shall not be held liable for the failure of either the supply or distribution division of its system to furnish its normal quantity of water at adequate pressure when such failure is due to the elements, natural causes, breaks, leaks, unusual or recurrent drafts, or the excess or unlawful use of water.

Rate:

The monthly charge for municipal fire protection service shall be made up of two parts, as follows:

Monthly Charge

1. Hydrant Charge

For each hydrant connected to the distribution system \$94.93 per month

2. Inch-Foot Charge

The number of "inch-foot" units in the distribution system is to be obtained by multiplying the number of linear feet of pipe of each diameter (6" and larger) by the diameter in inches. The total number of "inch-foot" units in the distribution system will be determined as of January 1st each year, and will be the basis for computing the "inch-foot" charge for the entire year with one-twelfth to be billed each month.

Charge for each inch-foot unit to be

\$0.20001 per year

Terms of Payment:

Bills under this rate are net; will be rendered monthly, and are due and payable at the office of the Company on the due date as stated on water bill.

Issued: July 22, 2014November 16, 2020 Issued by: Donald L. Ware Donald L. Ware

Effective: July 22, 2014 December 17, 2020 Title: Chief Operating Officer

Authorized by NHPUC Order No. 25,695 Docket No. DW 20-153-13-128, dated July 22, 2014.

Ninth-Tenth Revised Page 40

PITTSFIELD AQUEDUCT COMPANY, INC.

Superseding Ninth Eight-Revised Page 40

TEMPORARY PRIVATE FIRE PROTECTION SERVICE TOWN OF PITTSFIELD SCHEDULE FP-P

Application:

This schedule is applicable to fire protection in the Town of Pittsfield other than municipal, such as private hydrants, fire hose outlets and sprinkler systems, connected to the Company's distribution system.

Character of Service:

The Company will exercise due effort to maintain at all times the normal pressures on the distribution system, but the Company shall not be held liable for the failure of either the supply or distribution division of its system to furnish its normal quantity of water at adequate pressure when such failure is due to the elements, natural causes, breaks, leaks, unusual or recurrent drafts, or the excess or unlawful use of water.

Rates - MONTHLY:	Monthly <u>Charge</u>
For each 4-inch connection or service	\$ 67.68
For each 6-inch connection or service	\$ 194.21
For each 8-inch connection or service	\$ 412.47

Terms of Payment:

Bills under this rate are net; will be rendered monthly, and are due and payable at the office of the Company on the due date as stated on water bill.

Issued: July 22, 2014November 16, 2020 Issued by: Donald L. Ware

sued by: Donald L. Ware Donald L. Ware

Effective: July 22, 2014 December 17, 2020 Title: Chief Operating Officer

Authorized by NHPUC Order No. 25,695 Docket No. DW 20-153-13-128, dated July 22, 2014.

Proposed Third Fourth Revised Page 44

PITTSFIELD AQUEDUCT COMPANY, INC.

Superseding Second Third Page 44

TEMPORARY RATE SCHEDULE

GENERAL SERVICE – NON-METERED

TOWN OF PITTSFIELD

Pittsfield Aqueduct Company, Inc. (PAC) will charge current unmetered customers a monthly rate as specified below based on the average single family residential usage as specified below until such time as meters are installed.

Commercial, Industrial and Private Fire Protection customers will be charged an average Rate as calculated for a similar customer in PAC.

PAC will make every effort to install meters in a timely manner and in no such case should these rates remain in force for more than a twelve month period.

	Temporary Rate
5/8" Meter Charge	\$24.49 per month
Volumetric Charge Average Single Family Residential Usage	\$ 6.48 <u>5.83 CCF</u> _ <u>\$37.78</u>
Total Monthly Charge	\$62.27
Annually	\$747.24

Issued:	July 22, 2014November 16, 2020	<u>Issued</u>	by: Donald L. Ware Donald L. Ware	
Effective:	July 22, 2014 December 17, 2020	Title:	Chief Operating Officer	
Authorized by NHPUC Order No25,695-Docket No. DW 20-153-13-128, dated July 22, 2014.				

Proposed Second Third Revised 46

PITTSFIELD AQUEDUCT COMPANY, INC.

Superseding First Second Page 46

TEMPORARY

GENERAL SERVICE – METERED TOWN OF PITTSFIELD FIRE DEPARTMENT SCHEDULE GM

Application:

This schedule is applicable to metered water service for the Fire Department in the Town of Pittsfield, NH.

Character of Service:

Service shall consist of the production, treatment, and distribution of water for all residential, commercial and industrial requirements of customers whose premises abut any public street, road or way in which the Company has mains; provided, however, that such service shall only be rendered pursuant to the Terms and Conditions prescribed in other sections of this Tariff and the Rules of the New Hampshire Public Utilities Commission for Water Service.

Rates:

The Fire Department for the Town of Pittsfield shall be charged only for usage over 14 ccf of water per month. There will be no charge for the monthly customer charge.

Volumetric Rate:

The volumetric charge based on usage over 14 ccf shall be:

\$6.48 per 100 cu. ft.

Volumetric Charge: Terms of Payments:

Bills under this rate are net; will be rendered monthly, and are due and payable at the office of the Company on the due date as stated on water bill.

Issued: July 22, 2014November 16, 2020

Issued by: Donald L. Ware Donald L. Ware

Effective: July 22, 2014 December 17, 2020

Title: Chief Operating Officer

Authorized by NHPUC Order No. 25,695 Docket No. DW 20-153-13-128, dated July 22, 2014.

Tenth Revised Page 38

PITTSFIELD AQUEDUCT COMPANY, INC.

Superseding Ninth Revised Page 38

TEMPORARY GENERAL SERVICE – METERED TOWN OF PITTSFIELD SCHEDULE GM

Application:

This schedule is applicable to all metered water service in the Town of Pittsfield, NH, except municipal and private fire protection.

Character of Service:

Service shall consist of the production, treatment, and distribution of water for all residential, commercial and industrial requirements of customers whose premises abut any public street, road or way in which the Company has mains; provided, however, that such service shall only be rendered pursuant to the Terms and Conditions prescribed in other sections of this Tariff and the Rules of the New Hampshire Public Utilities Commission for Water Service.

Rates:

A minimum customer charge shall be made for each customer to whom service is rendered under this tariff, based on the meter size shown below:

<u>Size</u>	Mi	Monthly Minimum <u>Charge</u>	
5/8" 3/4" 1"	\$	24.49 34.89 52.69	
1 1/2"		95.09	
2"		147.10	
3"		273.29	
4"		447.87	
6"		893.36	
8"	1	,485.85	

Volumetric Rate:

In addition to the minimum charge, the volumetric charge, based on usage shall be:

Volumetric Charge

\$6.48 per 100 cu. ft.

Terms of Payments:

Bills under this rate are net; will be rendered monthly, and are due and payable at the office of the Company on the due date as stated on water bill.

Issued:	November 16, 2020	Issued by: Donald L. Ware
Effective:	December 17, 2020	Title: Chief Operating Officer
Authorized	by NHPUC Order No	Docket No. DW 20-153, dated

Tenth Revised Page 39

PITTSFIELD AQUEDUCT COMPANY, INC.

Superseding Ninth Revised Page 39

TEMPORARY MUNICIPAL FIRE PROTECTION SERVICE TOWN OF PITTSFIELD SCHEDULE FP-M

Application:

This rate is applicable to municipal fire protection in the Town of Pittsfield.

Character of Service:

The Company will exercise due effort to maintain at all times the normal pressures on the distribution system, but the Company shall not be held liable for the failure of either the supply or distribution division of its system to furnish its normal quantity of water at adequate pressure when such failure is due to the elements, natural causes, breaks, leaks, unusual or recurrent drafts, or the excess or unlawful use of water.

Rate:

The monthly charge for municipal fire protection service shall be made up of two parts, as follows:

Monthly Charge

1. Hydrant Charge

For each hydrant connected to the distribution system \$94.93 per month

2. Inch-Foot Charge

The number of "inch-foot" units in the distribution system is to be obtained by multiplying the number of linear feet of pipe of each diameter (6" and larger) by the diameter in inches. The total number of "inch-foot" units in the distribution system will be determined as of January 1st each year, and will be the basis for computing the "inch-foot" charge for the entire year with one-twelfth to be billed each month.

Charge for each inch-foot unit to be

\$0.20001 per year

Terms of Payment:

Bills under this rate are net; will be rendered monthly, and are due and payable at the office of the Company on the due date as stated on water bill.

Issued:	November 16, 2020	Issued	by: Donald L. Ware
Effective:	December 17, 2020	Title:	Chief Operating Officer
Authorized I	by NHPUC Order No	Docket No. I	DW 20-153, dated

Tenth Revised Page 40

PITTSFIELD AQUEDUCT COMPANY, INC.

Superseding Ninth Revised Page 40

TEMPORARY PRIVATE FIRE PROTECTION SERVICE TOWN OF PITTSFIELD SCHEDULE FP-P

Application:

This schedule is applicable to fire protection in the Town of Pittsfield other than municipal, such as private hydrants, fire hose outlets and sprinkler systems, connected to the Company's distribution system.

Character of Service:

The Company will exercise due effort to maintain at all times the normal pressures on the distribution system, but the Company shall not be held liable for the failure of either the supply or distribution division of its system to furnish its normal quantity of water at adequate pressure when such failure is due to the elements, natural causes, breaks, leaks, unusual or recurrent drafts, or the excess or unlawful use of water.

\$67.68 \$194.21 \$412.47
Ş

Terms of Payment:

Bills under this rate are net; will be rendered monthly, and are due and payable at the office of the Company on the due date as stated on water bill.

Issued:	November 16, 2020	Issued by: Donald L. Ware
Effective:	December 17, 2020	Title: Chief Operating Officer
Authorized	by NHPUC Order No	Docket No. DW 20-153, dated

PITTSFIELD AQUEDUCT COMPANY, INC.

Fourth Revised Page 44

Superseding Third Page 44

TEMPORARY RATE SCHEDULE

GENERAL SERVICE – NON-METERED

TOWN OF PITTSFIELD

Pittsfield Aqueduct Company, Inc. (PAC) will charge current unmetered customers a monthly rate as specified below based on the average single family residential usage as specified below until such time as meters are installed.

Commercial, Industrial and Private Fire Protection customers will be charged an average Rate as calculated for a similar customer in PAC.

PAC will make every effort to install meters in a timely manner and in no such case should these rates remain in force for more than a twelve month period.

	Temporary Rate
5/8" Meter Charge	\$24.49 per month
Volumetric Charge Average Single Family Residential Usage	\$ 6.48 <u>5.83 CCF</u> <u>\$37.78</u>
Total Monthly Charge	\$62.27
Annually	\$747.24

Issued:	November 16, 2020	Issued by: Donald L. Ware
Effective:	December 17, 2020	Title: Chief Operating Officer
Authorized b	oy NHPUC Order No	_Docket No. DW 20-153, dated

PITTSFIELD AQUEDUCT COMPANY, INC.

Third Revised 46

Superseding Second Page 46

TEMPORARY GENERAL SERVICE – METERED TOWN OF PITTSFIELD FIRE DEPARTMENT SCHEDULE GM

Application:

This schedule is applicable to metered water service for the Fire Department in the Town of Pittsfield, NH.

Character of Service:

Service shall consist of the production, treatment, and distribution of water for all residential, commercial and industrial requirements of customers whose premises abut any public street, road or way in which the Company has mains; provided, however, that such service shall only be rendered pursuant to the Terms and Conditions prescribed in other sections of this Tariff and the Rules of the New Hampshire Public Utilities Commission for Water Service.

Rates:

The Fire Department for the Town of Pittsfield shall be charged only for usage over 14 ccf of water per month. There will be no charge for the monthly customer charge.

Volumetric Rate:

The volumetric charge based on usage over 14 ccf shall be:

\$6.48 per 100 cu. ft.

Volumetric Charge: Terms of Payments:

Bills under this rate are net; will be rendered monthly, and are due and payable at the office of the Company on the due date as stated on water bill.

Issued:	November 16, 2020	Issued by: Donald L. Ware
Effective:	December 17, 2020	Title: Chief Operating Officer

Authorized by NHPUC Order No._____Docket No. DW 20-153, dated______.

TAB 6

Joint Temporary Rate Testimony of Larry Goodhue and Donald Ware

STATE OF NEW HAMPSHIRE

BEFORE THE

PUBLIC UTILITIES COMMISSION

Docket No. DW 20 – 153

Pittsfield Aqueduct Company, Inc. Permanent Rate Proceeding

DIRECT JOINT TESTIMONY OF LARRY D. GOODHUE AND DONALD L. WARE

IN SUPPORT OF PETITION FOR TEMPORARY RATES

November 16, 2020

I. INTRODUCTION

- Q. Mr. Goodhue, would you please state your name, address and position with the Pittsfield Aqueduct Company?
- A. My name is Larry D. Goodhue. My business address is 25 Walnut Street,
 Nashua, New Hampshire. I am Chief Executive Office and Chief Financial
 Officer of Pittsfield Aqueduct Company. (the "Company" or "PAC"). I have been
 employed with the Company since December, 2006. I am also Chief Executive
 Officer and Chief Financial Officer of Pennichuck Corporation ("Pennichuck"),
 which is the corporate parent of PAC.

Q. Please describe your educational background.

A. I have a Bachelor in Science Degree in Business Administration with a major in Accounting from Merrimack College in North Andover, Massachusetts. I am a licensed Certified Public Accountant in the State of New Hampshire. My license is currently inactive status.

Q. Please describe your professional background.

A. Prior to joining Pennichuck, I was the Vice President of Finance and Administration and previously the controller with METRObility Optical Systems, Inc. from September 2000 to June 2006. In my more recent role with METRObility, I was responsible for all financial, accounting, treasury and administration functions for a manufacturer of optical networking hardware and software. Prior to joining METRObility, I held various senior management and accounting positions with several private and publicly traded companies.

Q. What are your responsibilities as Chief Executive Officer of Pennichuck?

A. As Chief Executive Officer, I am responsible for the overall management of Pennichuck and its subsidiaries, including PAC. I report to the Board of Directors. I also work closely with the Chief Operating Officer, the Corporate Controller, Treasurer, Director of Water Supply, Chief Engineer, Distribution Manager, Assistant Treasurer, the Director of Human Resources and the Director of Information Technology to: (1) implement short and long-term financial and operating strategies, (2) insure the adequate funding of debt and expenses, and (3) to enable Pennichuck's utility subsidiaries to provide high quality water service at affordable rates, on a consistent basis.

Q. Mr. Ware, please state your name and position with Pittsfield Aqueduct Company.

A. My name is Donald L. Ware. I am the Chief Operating Officer of Pittsfield Aqueduct which is a subsidiary of Pennichuck Corporation. I am employed by and have worked for Pennichuck Water Works, Inc. since 1995. I am a licensed professional engineer in New Hampshire, Massachusetts and Maine.

Q. Please describe your educational background.

A. I have a Bachelor in Science in Civil Engineering from Bucknell University in Lewisburg, Pennsylvania and I completed all required courses, with the exception of my thesis, for a Master's degree in Civil Engineering from the same institution. I have a Master's in Business Administration from the Whittemore Business School at the University of New Hampshire.

Q. Please describe your professional background.

A. Prior to joining the Company, I served as General Manager of the Augusta Water District in Augusta, Maine from 1986 to 1995. I served as the District's engineer between 1982 and 1986. Prior to my engagement with the District, I served as design engineer for the State of Maine Department of Transportation for six months and before that as design engineer for Buchart-Horn Consulting Engineers from 1979 to 1982.

Q. What are your responsibilities as Chief Operating Officer of PAC?

A. As Chief Operating Officer, I am responsible for PAC's overall operations, including customer service, water supply, distribution and engineering. I work closely with PAC's Chief Engineer and other senior managers to help develop PAC's Annual and three-year Capital Improvement Plans.

II. REQUEST FOR TEMPORARY RATES

Q. What is the purpose of your joint testimony?

- A. The joint testimony is offered for the purpose of supporting PAC's request for an overall rate increase of 11.18% which is an increase in revenues by \$86,783 for a total revenue requirement of \$862,927 as outlined in Schedule A Proposed filed in this docket. As demonstrated in its Schedule 1A, under a conventional ratemaking structure, PAC has demonstrated that for the twelve months ended December 2019, its overall rate of return for that period was 3.81%.
- Q. Can you explain why the revenue deficiency is not readily apparent when reading a copy of PAC's 2019 Annual Report on file with the Commission?

A. Sure. As I explained before the Commission in DW 19-084, Pennichuck Water Works, Inc., ("PWW") income and expense statements on file with the Commission don't accurately reflect long-term debt owed to its parent. The Statements of Income and Expense submitted to the Commission are formulated around an investor owned utility that has a return on equity and depreciation expense in its revenue requirement and the statements PAC files don't really reflect the Company's cash position.

Q. On what date are you requesting that temporary dates be granted and why?

We are requesting that PAC be granted temporary rates, effective December 17, 2020, on a service rendered basis. This date is dependent on any difference between temporary rates and the permanent rates ultimately approved by the Commission in this docket being subject to full reconciliation back to December 17, 2020.

Q. Is there any benefit of temporary rates to customers?

A. Yes. The granting of temporary rates in this manner will mitigate the rate impact on customers by allowing customers to continue to budget for their current usage during this pandemic.

Q. Are you aware that N.H. Admin. Rules Puc 1203.05 provides that rate changes be implemented on a service rendered basis?

- A. Yes. PAC plans to implement temporary rates such that they are effective on a service rendered basis.
- Q. Will the temporary rates be spread uniformly across customer classes?

A. Yes. There will be no change in rate design if and until such time as the Commission approves a final order granting a permanent rate increase.

Q. What steps will PAC take to notify customers of the temporary rates?

PAC has posted its rate filing and request for temporary rates on its web site.
 PAC has also included in each customer bill a notice of the rate filing and the requested rates, both temporary and permanent. As the Commission is aware, PAC issues bills to its customers on a rotating basis throughout the month.

III. JUST AND REASONABLE FINDING AND CONCLUSION

- Q. Do you believe that the temporary rates requested by PAC are just and reasonable and in the public interest?
- A. Yes. As demonstrated by the analysis described above and in the rate case materials filed by PAC in this docket, PAC is now substantially under-earning since PAC's last rate case, Docket No. DW 13-128, due to an increase in costs, property taxes, and other expenses. The requested temporary rates will also serve to mitigate rate shock during this pandemic.

Q. Does that conclude your testimony on temporary rates?

A. Yes.

TAB 7

Report of Proposed Rate Change

		Pittsfield Aqueduct Company Report of Proposed Rate Changes For the Twelve Months Ended December 31, 2019		Pro Forma	
				Schedule 9 Permanent	
DOCKET NO:	DW 20-153	DATE FILED:	11/16/20		

EFF. DATE:

or PAGE NOS. 38, 39, 40, 44, 46

Proposed Change Effect of Average Rate or Class Proposed Number of **Pro Forma Rates Proposed Perm** of Service Change **Customers** to five Year Ave. Rates Amount % Increase G-M Increase 630 571,273 635,149 \$63,876 11.18% Private FP¹ 12 29,067 32,317 \$3,250 11.18% Increase FP - Hydrants 175,804 195,461 \$19,657 11.18% Increase 1 TOTALS 643 776,144 862,927 \$86,783

Signed by: Donald L. Ware

Title: Chief Operating Officer

12/17/20

¹ Includes Private Fire Services and Private Hydrants - count is number of accounts

1

TARIFF NO.:

Pittsfield Aqueduct Company Bingo Sheet Perm For the Twelve Months Ended December 31, 2019

UTILITY:	Pittsfield Aque	duct Company		DATE FILED:	16-Nov-20
TARIFF NO.:	5	or PAGE NOS.	38, 39, 40, 44, 46	EFF. DATE:	17-Dec-20

			Estimated Annual Revenue	Р	roposed Change	
Rate or Class of Service	Effect of Proposed Change	Average Number of Customers	Pro Forma Rate to TY Five Year Ave	Proposed Rates	\$\$ Amount Increase over TY Current Rates 5 Yr. Ave. Pro Forma	% Increase
G-M	Increase	630	571,273	635,149	63,876	11.18%
Private FP ¹	Increase	12	29,067	32,317	3,250	11.18%
FP - Hydrants	Increase	1	175,804	195,461	19,657	11.18%
TOTALS		643	776,144	862,927	86,783	

¹ Includes Private Fire Services and Private Hydrants - count is number of accounts

PITTSFIELD AQUEDUCT COMPANY

Rate Impact on Average Single Family Residential Customer

Based on Proposed Rate Making Methodology

Customer Impact

		9-084 Rate Model		
Overall Revenue Requirement(3)	\$	862,927		
Current Water Revenues with CBFRR	\$	776,144		
Overall Revenue % Increase (1)		11.18%		
Base Rates (2):	Exis	ting Rates	Prope	osed Rates
Monthly 5/8 inch Meter Customer Charge	\$	24.49	\$	27.23
Monthly Volumetric Charge based on Usage (2)	\$	33.63	\$	37.39
Total Average Single Family Residential Monthly Bill	\$	58.12	\$	64.62
Customer Impact from New Rates:				
Increase to the Total Average Single Family Residential Base Monthly Bill	\$	6.50		
Notes:				
(1) Per Schedule 9 of the 1604.08 schedules the effective rate increase for a GM c	ustomer i	s		11.18%
(2) Base Volumetric Charge per CCF	\$	6.48 grant	ed in DW13-	128
Average Single Family Residential Monthly Usage (CCF) during the test year (3) Exclusive of other revenues		5.19		

TAB 8

Customer Notice

Rate Increase Sought

PITTSFIELD AQUEDUCT COMPANY, INC.

Pittsfield Aqueduct Company, Inc. (PAC) has filed rate schedules with the New Hampshire Public Utilities Commission (Commission) to increase its rates for all customer classes, including General Metered, Non-Metered, Municipal Fire Protection-Hydrants, Private Fire Protection, and Metered Service for the Town of Pittsfield Fire Department. PAC has sought a permanent increase of 11.18% for all rate classes.

PAC seeks this increase based on increased operating expenses as well as investment in its plant and treatment systems to ensure continued compliance with the Safe Drinking Water Act. The increase sought for PAC residential General Metered customers would result in a change to the average bill as follows:

Based or	Average R n Average Monthl	esidential Month y Usage of 5.19 C	v	Feet)
	Customer Charge Based on 5/8" meter	Volumetric Charge per CCF	Volumetric Charge	Total Monthly
Current Rates	\$24.49	\$6.48	\$33.63	\$58.12
Proposed Permanent Ra	ate \$27.23	\$7.20	\$37.39	\$64.62

The Commission will issue an order scheduling a Pre-Hearing Conference to be held via WebEx. When the order is issued, the Company will post it at <u>www.pennichuck.com</u> and publish the order in area newspaper(s). At the Pre-hearing Conference, the Commission will hear preliminary statements from PAC and other parties, and will consider requests for formal intervener status.

The Pre-Hearing Conference is open to the public. Customers and other interested parties are invited to attend the hearing and comment on PAC's request. Those unable to attend the Pre-Hearing may submit written comments to the New Hampshire Public Utilities Commission at 21 South Fruit Street, Suite 10, Concord NH 03301 or via e-mail at <u>puc@puc.nh.gov</u> Tel: (603) 271-2431 Fax: (603) 271-3878.

For more information please reference the enclosed information sheet or call Pittsfield Aqueduct Company, Inc. at 1-800-553-5191

TAB 9

Testimony of Larry Goodhue and Attachments

STATE OF NEW HAMPSHIRE

BEFORE THE

PUBLIC UTILITIES COMMISSION

Docket No. DW 20-153

Pittsfield Aqueduct Company, Inc. Permanent Rate Proceeding

DIRECT TESTIMONY OF LARRY D. GOODHUE

November 13, 2020

Docket No. 20-153 Exhibit 1

Testimony of Larry D. Goodhue

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1 I. <u>INTRODUCTION</u>

Q. Would you please state your name, address and position with Pittsfield Aqueduct Company, Inc.?

A. My name is Larry D. Goodhue. My business address is 25 Walnut Street, Nashua, New
Hampshire. I am the Chief Executive Officer and Chief Financial Officer of Pittsfield
Aqueduct Company, Inc. (the "Company" or "PAC"). I have been employed with the
Company since December 2006. I am also the Chief Executive Officer and Chief
Financial Officer of Pennichuck Corporation ("Pennichuck"), which is the corporate
parent of PAC.

10 Q. Please describe your educational background.

A. I have a bachelor's in science degree in Business Administration with a major in
 Accounting from Merrimack College in North Andover, Massachusetts. I am a licensed
 Certified Public Accountant in New Hampshire; my license is currently in an inactive
 status.

15 **O.** Ple

. Please describe your professional background.

A. Prior to joining Pennichuck, I was the Vice President of Finance and Administration and
 previously the Controller with METRObility Optical Systems, Inc. from September 2000
 to June 2006. In my more recent role with METRObility, I was responsible for all
 financial, accounting, treasury and administration functions for a manufacturer of optical
 networking hardware and software. Prior to joining METRObility, I held various senior
 management and accounting positions with several private and publicly-traded
 companies.

1	Q.	What are your responsibilities as Chief Executive Officer of Pennichuck
2		Corporation?
3	А.	As Chief Executive Officer, I am responsible for the overall management of Pennichuck
4		and its subsidiaries, including PAC, and I report to the Board of Directors. I work with
5		the Chief Operating Officer, the Corporate Controller, Treasurer, Assistant Treasurer,
6		Director of Water Supply, Chief Engineer, Distribution Manager, the Director of Human
7		Resources and the Director of Information Technology to: (1) implement short and long-
8		term financial and operating strategies, (2) insure the adequate funding of debt and
9		expenses, and (3) enable Pennichuck's utility subsidiaries to provide high quality water
10		service at affordable rates, on a consistent basis.
11	Q.	Have you previously testified before this or any other regulatory commission or
12		governmental authority?
13	А.	Yes. I have submitted written testimony in the following dockets before the New
14		Hampshire Public Utilities Commission (the "Commission"):
15		• Financings for PEU – DW 12-349, DW 13-017, DW 13-125, DW 14-020, DW 14-
16		191, DW 14-282, DW 14-321, DW 15-044, DW 16-234, DW 17-055, DW 17-157,
17		DW 18-132, DW 19-069 and DW 20-081;
18		• Financings for Pittsfield Aqueduct Company ("PAC") – DW 15-045 and DW 16-235;
19		• Financings for Pennichuck Water Works, Inc. ("PWW") – DW 14-021, DW 14-130,
20		DW 15-046, DW 15-196, DW 16-236, DW 17-183, DW 19-026, DW 20-055, DW
21		20-064 and DW 20-157.

1	•	Permanent and Temporary Rate Increase Proceedings for: PWW – DW 13-130, DW
2		16-806 and DW 19-084; PEU – DW 13-126 and DW 17-128; and PAC – DW 13-
3		128.

4 II. <u>PURPOSE OF THIS TESTIMONY</u>

5 Q. What is the purpose of your testimony?

6 A. The purpose of my testimony is to provide information supporting PAC's request for temporary rate relief, permanent rate schedules, and request to modify PAC's ratemaking 7 structure, including: (1) relevant historical information regarding the City of Nashua's 8 acquisition of Pennichuck in early 2012; (2) information concerning how the ratemaking 9 structure set forth in the Settlement Agreement approved by this Commission in Order 10 11 No. 25,292 in Docket No. DW 11-026 has been operating since the 2012 acquisition; (3) information concerning PWW recent settlement modifying its ratemaking structure in 12 Docket No. DW 16-806 and Docket No. DW 19-084, as well as for PEU in Docket No. 13 DW 17-128, should be applied to PAC; and (4) information supporting the rate relief 14 requested by PAC and the specific modifications to PAC's current ratemaking structure 15 demonstrating that such requests are just, reasonable and in the public interest. 16 О. Would you please identify the other witnesses in this case? 17 The other witness in this case, who is also providing written testimony in this proceeding, A. 18

is Chief Operating Officer Donald Ware. This individual holds this role for both PAC and Pennichuck, as well as the other subsidiaries of Pennichuck. His testimony will describe his qualifications, history and previous instances of testimony before the

22 Commission.

1	III.	HISTORY AND IMPLICATIONS OF THE CITY OF NASHUA ACQUISITION
2	Q.	Mr. Goodhue, before explaining the details of the proposed financings, would you
3		please provide some history regarding the ownership of PAC and how that history
4		supports PAC's request for approval of permanent and temporary rate relief?
5	А.	PAC as a corporate entity is wholly-owned by Pennichuck, which is, in turn, is a closely-
6		held private corporation that is wholly-owned by the City of Nashua, New Hampshire, as
7		its sole shareholder. The City of Nashua acquired its ownership of Pennichuck on
8		January 25, 2012, pursuant to this Commission's Order No. 25,292 (23, 2011)
9		(Approving Acquisition and Settlement Agreement). Prior to this acquisition by the City
10		of Nashua, Pennichuck's shares were traded on the NASDAQ public stock exchange.
11		For purposes of my testimony, I refer to the period prior to the City's acquisition as "pre-
12		acquisition" and the period after as "post-acquisition."
13	Q.	Did the City's acquisition affect the way in which PAC operates as a utility?
14	А.	Yes. The change in the ultimate ownership of PAC's parent, Pennichuck, from a
15		publicly-traded investor-owned utility to ownership by the City has had important
16		consequences for the operation of PAC. These same issues were involved with PAC's
17		regulated sister companies, PWW and PEU which are also wholly owned by Pennichuck.
18		As such, my testimony in PWW's recent rate cases, Docket No. DW 16-806 and Docket
19		No. DW 19-084, as well as PEU's recent rate case in Docket No. DW 17-128, applies
20		equally or substantially to this case. In light of the settlement regarding PWW's
21		ratemaking methodology, I will be referring to PWW's rate cases in DW 16-806 and DW
22		19-084, or PEU's rate case under DW 17-128, throughout my testimony.

1	Q.	What are the important similarities in the way the City's acquisition affected the
2		operation of PAC and PWW or PEU?
3	А.	One of the most important consequences is that PAC, PWW, or PEU, after the City's
4		acquisition of Pennichuck, no longer have access to the private equity markets as a
5		method of financing a portion of their capital needs. Companies that have access to the
6		private equity markets, or Investor Owned Utilities ("IOU's"), where a 50/50 debt/equity
7		ratio is considered optimal, but at an elevated cost to rate payers due to a return on equity
8		needed to benefit public company shareholders, in the form of share value and
9		appreciation and/or the regular and consistent payment of dividends to their shareholders.
10		
11		As such, and as contemplated during the Commission's proceeding to approve the City's
12		acquisition of Pennichuck in DW 11-026, after the acquisition, PAC, PWW, and PEU are
13		expected to finance their on-going capital needs entirely and solely through the issuance
14		of debt.
15	Q.	Does reliance solely on debt to finance PAC's operations have impacts on PAC's
16		customers?
17	А.	Yes. As contemplated during the acquisition proceedings, one positive result of this
18		anticipated debt financing is that the weighted cost of PAC's capital structure is
19		significantly lower than it was prior to the City's acquisition, due to the elimination of the
20		public company ROE dynamic discussed previously. As for PAC, this ROE existed at
21		9.75% post-tax pre-acquisition (approximately 16% pre-tax at Corporate tax rates in
22		existence at that time, and approximately 12% pre-tax at current Corporate tax rates).

This lower cost of capital has had and will continue to have direct beneficial benefits for
 PAC's customers.

Q. Does reliance solely on debt to finance PAC's operations have consequences for PAC's rate setting methods and procedures?

A. Yes. As also contemplated in the acquisition Docket DW 11-026, the City's acquisition 5 of Pennichuck and the resulting need to finance utility operations solely with debt has 6 required modifications to PAC's (and Pennichuck's other utilities') ratemaking methods 7 and procedures. As a result of this reliance on debt, PAC is much more dependent on the 8 direct relationship of cash flow generated from rates, as it relates to the ongoing 9 repayment of debt in support of ongoing capital investments. Under the previous 10 ownership structure, the allowed return on public company equity allowed for extra cash 11 generated to cover the repayment of debt obligations, as well as adequate coverage of 12 operating expenses and dividend obligations to shareholders. This is even more 13 important for PAC than it is for PWW or PEU, as both PWW and PEU have access to 14 external debt financing for their capital project needs based upon the size of their 15 financial operating levels, and the magnitude of their capital project needs. PAC, on the 16 other hand, has no access to external debt funding except State Revolving Fund ("SRF") 17 or Drinking Water and Groundwater Trust Fund ("DWGTF") loans for certain eligible 18 projects, which may qualify from time to time. This causes an even greater reliance upon 19 PAC's overall rate structure, in support of fully funding cash flow and working capital 20 needs, in order to remain financially viable long term. While PAC has the ability to 21 access funds from Pennichuck, as a part of the consolidated group, utilizing Pennichuck's 22 23 Working Capital Line of Credit as a backstop for periodic and temporary or seasonal cash

1		flow needs, its rates must produce sufficient cash to repay those borrowings, as
2		Pennichuck is obligated by its lender to completely "clean out" and pay that facility down
3		to \$0 for at least 30 consecutive days in each calendar year.
4	Q.	What is your opinion of the Company's specific business risk profile in comparison
5		with the overall water utility industry?
6	A.	There are a number of Company specific factors that need to be considered in evaluating its
7		business risk profile relative to the entire water utility industry. The first factor is the
8		Company's small size. Small size magnifies the impact of certain unavoidable fixed costs,
9		such as: state and local property taxes; and, property & casualty insurance. Another factor
10		magnifying the Company's business risk is its geographically small single-state service
11		territory. Water companies that operate in multiple states across larger geographic areas are
12		generally considered to have less business risk as they are less reliant on a single regulator
13		or on the weather in a specific geography.
13 14	Q.	or on the weather in a specific geography. Please explain financial risk and why that is important to the Company in meeting its
	Q.	
14	Q. A.	Please explain financial risk and why that is important to the Company in meeting its
14 15		Please explain financial risk and why that is important to the Company in meeting its long-term obligations.
14 15 16		Please explain financial risk and why that is important to the Company in meeting its long-term obligations. Financial risk reflects the assessment of the Company's corporate financing policies and
14 15 16 17		Please explain financial risk and why that is important to the Company in meeting its long-term obligations. Financial risk reflects the assessment of the Company's corporate financing policies and practices including, but not necessarily limited to: liquidity (i.e., credit lines), and debt
14 15 16 17 18		Please explain financial risk and why that is important to the Company in meeting its long-term obligations. Financial risk reflects the assessment of the Company's corporate financing policies and practices including, but not necessarily limited to: liquidity (i.e., credit lines), and debt capitalization and the ability to raise sufficient debt to finance necessary capital
14 15 16 17 18 19		Please explain financial risk and why that is important to the Company in meeting its long-term obligations. Financial risk reflects the assessment of the Company's corporate financing policies and practices including, but not necessarily limited to: liquidity (i.e., credit lines), and debt capitalization and the ability to raise sufficient debt to finance necessary capital expenditures, in relation to the Company's operating and capital spending plans. More
14 15 16 17 18 19 20		Please explain financial risk and why that is important to the Company in meeting its long-term obligations. Financial risk reflects the assessment of the Company's corporate financing policies and practices including, but not necessarily limited to: liquidity (i.e., credit lines), and debt capitalization and the ability to raise sufficient debt to finance necessary capital expenditures, in relation to the Company's operating and capital spending plans. More specifically, financial risk considers and seeks to measure the Company's ability to finance
14 15 16 17 18 19 20 21		Please explain financial risk and why that is important to the Company in meeting its long-term obligations. Financial risk reflects the assessment of the Company's corporate financing policies and practices including, but not necessarily limited to: liquidity (i.e., credit lines), and debt capitalization and the ability to raise sufficient debt to finance necessary capital expenditures, in relation to the Company's operating and capital spending plans. More specifically, financial risk considers and seeks to measure the Company's ability to finance its capital additions program while meeting its debt obligations on a timely and consistent

1		business risk category. Other things being equal, the higher the business risk the higher the
2		credit benchmarks necessary to achieve an overall favorable credit rating. Certain aspects of
3		the components of the Company's current rate structure, as defined under the Settlement
4		Agreement for Docket No. DW 11-026, helps to mitigate some of this financial risk,
5		including the establishment of the City Bond Fixed Revenue Requirement ("CBFRR") and
6		the overall Rate Stabilization Fund ("RSF") funds from that Order, as defined later in this
7		testimony.
8	Q.	Does the Company have a bond credit rating for its debt?
9	A.	No. The Company does not currently have a bond credit rating designated for its debt, as a
10		stand-alone company. However, the Company completed discussions about the potential
11		refinancing of its existing intercompany notes payable with a banking institution in 2013,
12		and as a part of that process, the banking institution did an evaluation of the credit
13		worthiness of PAC. This lender declined to offer replacement financing for PAC, for these
14		intercompany notes, based upon the risk factors, and the business risk factors spoken about
15		previously in this testimony.
16	Q.	What factors support the Company's creditworthiness?
17	A.	In discussions with potential lenders, PAC's credit risk rating does have certain favorable
18		elements in existence, including: stability & predictability of the regulatory environment,
19		cost and investment recovery (ability and timeliness), operational efficiency, scale of capital
20		program and asset condition, overall organization structure, and its funding from operations
21		compared to its debt position.
22	Q.	With respect to the Company's creditworthiness, what challenges face the Company?

1	A.	The Company faces several challenges, including: the Company's capital additions program;
2		the need to properly maintain a program of ongoing infrastructure replacement; the need for
3		adequate rate relief to maintain financial ratios and service existing and new debt; and, the
4		small size of the Company.
5	Q.	What are the primary factors needed to maintain an acceptable credit profile?
6	А.	Certain elements of the Company's current rate structure, as provided for in DW 11-026, are
7		important in giving PAC access to necessary low cost debt funding, needed to maintain its
8		operations without any major disruptions, and to maintain compliance with potential
9		financial covenants (as discussed earlier in this testimony). These elements include the
10		CBFRR, the RSF, the inclusion of the Municipal Acquisition Regulatory Asset ("MARA")
11		as an element of Generally Accepted Accounting Principles ("GAAP") basis equity, the
12		prescribed formulaic approach to the allowed return on common equity (as discussed
13		above), and the current corporate governance structure of Pennichuck and PAC.
14		
15		It is important to note, however, that the RSF established in DW 11-026, only gave PAC
16		access to those funds at PWW through intercompany borrowings, but did not provide for
17		any basis of repayment of borrowed funds from the RSF (back to PWW), or the specific
18		bifurcation of RSF funds exclusively for the usage by PAC. This is due in part to the fact
19		that PAC's current rate structure does not include an element that includes the Company's
20		ability to repay intercompany debt obligations to Pennichuck or PWW, as an element of its
21		allowed revenues.
22		

1		To address this problem, in DW 16-806, the bifurcation and reservation of specific RSF
2		funds for PAC was approved. In this docket, we are seeking approval to accept those funds
3		into PAC's rate structure, a modified rate structure for the further bifurcation of those funds
4		to backup the three proposed buckets of allowed revenues (CBFRR, OERR, and DSRR), as
5		was established for PWW in DW 16-806 and PEU in DW 17-128. We are also including
6		intercompany debt obligations in the computation of the DSRR portion of allowed revenues,
7		such that the Company's rate structure provides for the cash resources to service and repay
8		those obligations.
9	Q.	Why is an acceptable credit profile important to the Company, and what is being done
10		in this case to provide for that?
11	A.	An acceptable credit profile is important in that it allows the Company to continue to have
12		access to debt funding, from its available sources. Even though the SRF and DWGTF
13		programs do not include financial covenants like other commercial loan programs, if the
14		Company is deemed not to be financially viable, even those funds will not be available to
15		them for capital project investments. Additionally, as the Company's only other source of
16		debt funding currently is intercompany borrowings from Pennichuck, it must maintain a
17		level of financial viability that is accretive to the overall financial health of the corporate
18		group, or access to those funds could be jeopardized. The implementation of the modified
19		rate structures being sought in this case, as approved for PWW in Dockets No. DW 16-806
20		and DW 19-084, and PEU in Docket No. DW 17-128, are essential to provide PAC with a
21		rate structure that is needed to provide for long term financial viability and an acceptable
22		credit profile, as well as rate stability for its customers over the long term. This is not only
23		important for PAC, but also important in its intercompany obligations to Pennichuck and

1		PWW, as PAC's ability to properly pay for intercompany usage of the resources provided
2		from Pennichuck and PWW is vital to the overall credit worthiness of both Pennichuck and
3		PWW, in their ability to comply with debt covenants, and maintain a credit rating that is
4		accretive to the entire corporation group, which is beneficial to PAC and its customers. The
5		overall impact of the modified ratemaking methodology being sought in this case, on the
6		credit profile of the companies can be further explained by referring to supplemental
7		testimony provided in DW 19-084 on August 21, 2019, and further clarification as submitted
8		on October 9, 2019.
9		
10 11 12	IV.	<u>RATEMAKING METHODOLOGY SETTLEMENT IN PWW'S RATE CASE,</u> <u>DOCKET NO. DW 16-806 AND DW 19-084, AND PEU'S RATE CASE, DOCKET</u> <u>NO. DW 17-128</u>
13	Q.	Mr. Goodhue, you noted the impacts of the City's acquisition of Pennichuck on its
14		subsidiaries, PAC, PEU, and PWW, were similar. Please provide an overview of the
15		relevant issues from PWW's 2016 and 2019 rate case, as well as PEU's 2017 rate
16		case.
17	А.	In PWW's Docket DW 16-806 and DW 19-084, as well as PEU's Docket DW 17-128,
18		we were faced with many of the same issues that presently face PAC. The City's
19		acquisition resolved almost a decade of intense disputes between the City and the pre-
20		acquisition management of Pennichuck, and was premised on the assumption that the
21		······································
21		City's ownership of the utilities would produce consistently lower rates for ratepayers
21		
		City's ownership of the utilities would produce consistently lower rates for ratepayers

1		for PWW as adopted in Docket DW 11-026. Likewise, on July 18, 2018, the parties to
2		Docket No. DW 17-128 filed a Settlement Agreement which substantially updated the
3		ratemaking methodology for PEU as adopted in DW 11-026, and in conformity with the
4		updated ratemaking methodology for PWW put in place in Docket No. DW 16-806. The
5		Commission also approved this settlement. Additionally, on June 24, 2020, the parties to
6		Docket No. DW 19-084 filed a Settlement Agreement which further updated the
7		ratemaking methodology for PWW as adopted in Docket DW 11-026 and modified in
8		Docket No. DW 16-806. This settlement was approved by the Commission. As is
9		outlined in the DW 16-806 Settlement Agreement, Pennichuck's experiences since the
10		DW 11-026 ratemaking methodology was approved demonstrated some deficiencies in
11		that methodology, but our experience also provided a basis to understand what
12		improvements to the methodology were needed. Those improvements are reflected in the
13		DW 16-806 Settlement Agreement. The DW 16-806 Settlement Agreement is attached
14		as Exhibit LDG-1 (excluding exhibits). The Settlement Agreement for the more recent
15		revisions agreed to in DW 19-084 is attached as Exhibit LDG-2. The settlement contains
16		a flow chart at pages 63-69 that is helpful in visualizing the ultimate goal of the changes
17		to PAC's ratemaking structure.
18	Q.	What are the primary benefits of the modified rate structures approved under the
19		DW 16-806, DW 17-128, and DW 19-084 Settlement Agreements, as it pertains to
20		PAC?
21	А.	The modifications to PAC's ratemaking structure will increase PAC's ability to provide
22		for adequate cash flows to repay its debts, and will provide lenders with the confidence in

23 PAC's ability to repay its debt obligations, all of which is fundamental for PAC to be

1		able to continue to access needed debt for infrastructure replacement and operations.
2		This is especially important for PAC, with its inherent limitations to access of external
3		debt financing, as addressed earlier in this testimony. As such, their ability to meet their
4		cash flow needs is vitally important in the Company's ability to repay any SRF or
5		DWGTF loan obligations and/or the repayment of intercompany loan obligations to
6		Pennichuck, as its only other source of internal debt financing, which is dependent upon
7		the corporation as a whole being able to meet its debt and covenant compliance
8		obligations, all of which are dependent upon rates that provide for an adequacy of bottom
9		line profitability and cash flow liquidity.
10	Q.	Did the Parties to the DW 16-806 Settlement Agreement anticipate that the modified
11		rate structure would also apply to PAC?
12	А.	Yes. The Settlement Agreement specifically includes the following provision on pages
12 13	А.	Yes. The Settlement Agreement specifically includes the following provision on pages 14-15:
13 14	А.	14-15: <i>"The Settling Parties agree that the current \$5,000,000 Rate Stabilization</i>
13 14 15	А.	14-15: <i>"The Settling Parties agree that the current \$5,000,000 Rate Stabilization Fund (RSF) maintained by PWW, which was established under the</i>
13 14	А.	14-15: <i>"The Settling Parties agree that the current \$5,000,000 Rate Stabilization Fund (RSF) maintained by PWW, which was established under the Original Rate Structure, should be re-allocated amongst the three Penn</i>
13 14 15 16	А.	14-15: "The Settling Parties agree that the current \$5,000,000 Rate Stabilization Fund (RSF) maintained by PWW, which was established under the Original Rate Structure, should be re-allocated amongst the three Penn Corp utilities such that PWW's allocated share of the RSF shall now be \$3,920,000, with the remaining balance of \$1,080,000 to be allocated
13 14 15 16 17 18 19	А.	14-15: "The Settling Parties agree that the current \$5,000,000 Rate Stabilization Fund (RSF) maintained by PWW, which was established under the Original Rate Structure, should be re-allocated amongst the three Penn Corp utilities such that PWW's allocated share of the RSF shall now be \$3,920,000, with the remaining balance of \$1,080,000 to be allocated between PEU and PAC. The allocation to PWW is based on the respective
13 14 15 16 17 18 19 20	Α.	14-15: "The Settling Parties agree that the current \$5,000,000 Rate Stabilization Fund (RSF) maintained by PWW, which was established under the Original Rate Structure, should be re-allocated amongst the three Penn Corp utilities such that PWW's allocated share of the RSF shall now be \$3,920,000, with the remaining balance of \$1,080,000 to be allocated between PEU and PAC. The allocation to PWW is based on the respective three utilities' last Commission approved revenue requirements as
13 14 15 16 17 18 19 20 21	Α.	14-15: "The Settling Parties agree that the current \$5,000,000 Rate Stabilization Fund (RSF) maintained by PWW, which was established under the Original Rate Structure, should be re-allocated amongst the three Penn Corp utilities such that PWW's allocated share of the RSF shall now be \$3,920,000, with the remaining balance of \$1,080,000 to be allocated between PEU and PAC. The allocation to PWW is based on the respective three utilities' last Commission approved revenue requirements as detailed on <u>Exhibit 6</u> of this Settlement Agreement. The Settling Parties
13 14 15 16 17 18 19 20	Α.	14-15: "The Settling Parties agree that the current \$5,000,000 Rate Stabilization Fund (RSF) maintained by PWW, which was established under the Original Rate Structure, should be re-allocated amongst the three Penn Corp utilities such that PWW's allocated share of the RSF shall now be \$3,920,000, with the remaining balance of \$1,080,000 to be allocated between PEU and PAC. The allocation to PWW is based on the respective three utilities' last Commission approved revenue requirements as
13 14 15 16 17 18 19 20 21 22	Α.	14-15: "The Settling Parties agree that the current \$5,000,000 Rate Stabilization Fund (RSF) maintained by PWW, which was established under the Original Rate Structure, should be re-allocated amongst the three Penn Corp utilities such that PWW's allocated share of the RSF shall now be \$3,920,000, with the remaining balance of \$1,080,000 to be allocated between PEU and PAC. The allocation to PWW is based on the respective three utilities' last Commission approved revenue requirements as detailed on <u>Exhibit 6</u> of this Settlement Agreement. The Settling Parties agree that the \$1,080,000 portion of the RSF that is proposed to be allocated between PEU and PAC shall remain in PWW's RSF cash account until such time that rate case filings are made for PEU and PAC.
 13 14 15 16 17 18 19 20 21 22 23 24 25 	Α.	14-15: "The Settling Parties agree that the current \$5,000,000 Rate Stabilization Fund (RSF) maintained by PWW, which was established under the Original Rate Structure, should be re-allocated amongst the three Penn Corp utilities such that PWW's allocated share of the RSF shall now be \$3,920,000, with the remaining balance of \$1,080,000 to be allocated between PEU and PAC. The allocation to PWW is based on the respective three utilities' last Commission approved revenue requirements as detailed on <u>Exhibit 6</u> of this Settlement Agreement. The Settling Parties agree that the \$1,080,000 portion of the RSF that is proposed to be allocated between PEU and PAC shall remain in PWW's RSF cash account until such time that rate case filings are made for PEU and PAC. At that time, the modified rate structure for PWW that is proposed in this
 13 14 15 16 17 18 19 20 21 22 23 24 25 26 	Α.	14-15: "The Settling Parties agree that the current \$5,000,000 Rate Stabilization Fund (RSF) maintained by PWW, which was established under the Original Rate Structure, should be re-allocated amongst the three Penn Corp utilities such that PWW's allocated share of the RSF shall now be \$3,920,000, with the remaining balance of \$1,080,000 to be allocated between PEU and PAC. The allocation to PWW is based on the respective three utilities' last Commission approved revenue requirements as detailed on Exhibit 6 of this Settlement Agreement. The Settling Parties agree that the \$1,080,000 portion of the RSF that is proposed to be allocated between PEU and PAC shall remain in PWW's RSF cash account until such time that rate case filings are made for PEU and PAC. At that time, the modified rate structure for PWW that is proposed in this settlement agreement will also be requested as the proposed rate
 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 	Α.	14-15: "The Settling Parties agree that the current \$5,000,000 Rate Stabilization Fund (RSF) maintained by PWW, which was established under the Original Rate Structure, should be re-allocated amongst the three Penn Corp utilities such that PWW's allocated share of the RSF shall now be \$3,920,000, with the remaining balance of \$1,080,000 to be allocated between PEU and PAC. The allocation to PWW is based on the respective three utilities' last Commission approved revenue requirements as detailed on Exhibit 6 of this Settlement Agreement. The Settling Parties agree that the \$1,080,000 portion of the RSF that is proposed to be allocated between PEU and PAC shall remain in PWW's RSF cash account until such time that rate case filings are made for PEU and PAC. At that time, the modified rate structure for PWW that is proposed in this settlement agreement will also be requested as the proposed rate structures for both PEU and PAC. If the respective rate structures for
 13 14 15 16 17 18 19 20 21 22 23 24 25 26 	Α.	14-15: "The Settling Parties agree that the current \$5,000,000 Rate Stabilization Fund (RSF) maintained by PWW, which was established under the Original Rate Structure, should be re-allocated amongst the three Penn Corp utilities such that PWW's allocated share of the RSF shall now be \$3,920,000, with the remaining balance of \$1,080,000 to be allocated between PEU and PAC. The allocation to PWW is based on the respective three utilities' last Commission approved revenue requirements as detailed on Exhibit 6 of this Settlement Agreement. The Settling Parties agree that the \$1,080,000 portion of the RSF that is proposed to be allocated between PEU and PAC shall remain in PWW's RSF cash account until such time that rate case filings are made for PEU and PAC. At that time, the modified rate structure for PWW that is proposed in this settlement agreement will also be requested as the proposed rate

1		It is important to note that included in the Settlement Agreement and subsequent Order
2		affirming that Agreement in Docket No. DW 17-128 for PEU, that the \$980,000
3		referenced above for funds to be transferred to PEU, was affirmed and put in place
4		subsequent to that Order's issuance. The \$100,000 reserved for PAC remains at PWW
5		awaiting an approval for a transfer of those RSF funds to PAC, as a part of this
6		proceeding.
7	Q.	Is PAC now seeking to implement the same ratemaking structure described in the
8		16-806 Settlement Agreement, as well as the further modifications approved for
9		PWW in 19-084?
10	А.	Yes. This is the ideal time for the new ratemaking structure to apply to PAC. PAC
11		currently has a need to fully cover its cash flow obligations and provide for overall
12		covenant compliancy within the corporate group. This is especially important, as under
13		its existing rate structure, given the fact that PAC's depreciation lives are well in excess
14		of its debt instrument lives, giving rise to the fact that the cash flow generated from
15		depreciation does not fully meet the principal repayments on issued debt, either to outside
16		lenders such as the SRF or DWGTF, or as a repayment of funds on intercompany loans
17		used to fund de minis and ongoing "run rate" capital expenditures for PAC. This is
18		especially important in the upcoming year or more, as the New Hampshire Department of
19		Environmental Services ("NHDES") has worked with the Company on a required need to
20		bring certain capital projects to bear, which will provide for a safety net for water supply
21		to the system in the Town of Pittsfield. Currently that infrastructure contains a single
22		water main that runs down Catamount Road on the northern side of the PAC water
23		system, into the downtown area where the distribution system exists. Should a failure

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 problematic for a number of reasons. The Company did attempt to install a duplicated main down Catamount Road, but the NHDOT rejected the installation. In the alternative within the next several years, the NHDES is seeking to have PAC install a water tank the southern side of the Suncook Highway to provide for storage and supply, should main break occur on the single watermain located on Catamount Road. Given this individual circumstance, it places even more importance on the need to secure a mode rate structure for PAC, which will fully support the cash flows of the Company, giving the ability to fund its ongoing operating costs, as well the service of its external debt payments, including the anticipated SRF or DWGTF loan for this new tank. 	itive, c on a ified
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payments, including the anticipated SRF or DWGTF loan for this new tank.	
11	
Additionally, as PAC has no current access to the RSF funds through PWW because	it
has no approved ability to repay any monies borrowed from those funds, the new	
ratemaking methodology is needed to: (1) insure adequate EBITDA coverage for PA	C, as
it relates to covenant requirements for itself or the corporate group as a whole; (2)	
16 provide adequate cash flows from revenues to pay debt service, CBFRR and operation	ıg
expenses; and (3) provide adequate support funds in the form of the RSF accounts, to)
18 provide for cash funding during times of revenue shortfalls and expense growth above	e
19 inflationary levels between rate case filings.	
20 Q. Of the \$1,080,000 of RSF funds to be transferred from PWW to PEU and PAC,	how
21 much is reserved for PAC, and please explain whether that amount is insufficient	ıt to
fully fund those RSF accounts and how does the Company anticipate handling t	he
23 full funding of those accounts.	

1	A.	Of the \$1,080,000 in RSF funds available from transfer from PWW to PEU and PAC,
2		\$980,000 is reserved for PEU and \$100,000 for PAC. As delineated in Mr. Ware's
3		testimony in support of this filing, the calculated need to fully fund the new RSF accounts
4		is \$186,000. As such, the available transferrable cash funds are \$86,000 short of the
5		overall assessed need at this time. This shortfall is anticipated to be funded in one of the
6		following ways: (1) if the Material Operating Expense Factor ("MOEF") is approved as a
7		rate structure element in this case, then the Company will only seek funding of the RSF
8		accounts to the imprest level of \$100,000 at this time, or (2) if the MOEF is not approved
9		in this case, then it will seek full funding to the \$186,000 imprest level by refilling the
10		RSF funds to their required levels over the next three years via a deferred debit included
11		as an element of the allowed revenues in this case.
12		
13 14	V.	OVERVIEW OF REQUESTS FOR RATE RELIEF AND MODIFICATIONS TO PAC'S RATEMAKING STRUCTURE
13	V. Q.	
13 14 15		PAC'S RATEMAKING STRUCTURE
13 14 15 16		<u>PAC'S RATEMAKING STRUCTURE</u> Mr. Goodhue, before describing the details of the proposed request for permanent
13 14 15 16 17	Q.	PAC'S RATEMAKING STRUCTURE Mr. Goodhue, before describing the details of the proposed request for permanent rate relief, could you provide an overview of the nature of the proposal?
13 14 15 16 17 18	Q.	PAC'S RATEMAKING STRUCTUREMr. Goodhue, before describing the details of the proposed request for permanentrate relief, could you provide an overview of the nature of the proposal?The proposed rate relief proposal consists of two principal components. First, as set forth
13 14 15 16 17 18 19	Q.	PAC'S RATEMAKING STRUCTURE Mr. Goodhue, before describing the details of the proposed request for permanent rate relief, could you provide an overview of the nature of the proposal? The proposed rate relief proposal consists of two principal components. First, as set forth in our full rate filing materials which are described in more detail by Mr. Ware in his
13 14 15 16 17 18 19 20	Q.	PAC'S RATEMAKING STRUCTUREMr. Goodhue, before describing the details of the proposed request for permanentrate relief, could you provide an overview of the nature of the proposal?The proposed rate relief proposal consists of two principal components. First, as set forthin our full rate filing materials which are described in more detail by Mr. Ware in histestimony, PAC is requesting an increase in annual revenues of approximately \$86,783,
13 14 15 16 17 18 19 20 21	Q.	PAC'S RATEMAKING STRUCTUREMr. Goodhue, before describing the details of the proposed request for permanent rate relief, could you provide an overview of the nature of the proposal?The proposed rate relief proposal consists of two principal components. First, as set forth in our full rate filing materials which are described in more detail by Mr. Ware in his testimony, PAC is requesting an increase in annual revenues of approximately \$86,783, or 11.18%. The second, component of PAC's requested relief is its request, as I

1		DW 16-806 and DW 19-084 modified ratemaking methodologies would allow PAC to
2		provide adequate cash flow to cover its overall cost of operations, including prudent
3		operating expenses and debt service costs, and provide its debt lenders with reasonable
4		expectations of future rates that are directly related in a common sense way to PAC's
5		long-term, post-acquisition capital requirements which rely on entirely on debt. To
6		restate this, essentially these modifications expressly acknowledge that PAC's reliance on
7		debt financing requires a ratemaking method that is based on a fixed multiple of the
8		annual debt service on existing debt, with the balance of the allowed revenue requirement
9		tied to coverage of prudent, normal and ongoing operating expenses.
10	Q.	Mr. Goodhue, in practical terms, what would be the impact on the average
11		residential monthly bill if all aspects of PAC's proposed rate relief were approved
12		by the Commission?
13	A.	Overall, the average single family residential monthly bill is currently \$58.12. Our
13 14	А.	Overall, the average single family residential monthly bill is currently \$58.12. Our requested rate increase would increase the average base amount in a customer's bill by
	А.	
14	A. VI.	requested rate increase would increase the average base amount in a customer's bill by
14 15 16		requested rate increase would increase the average base amount in a customer's bill by approximately \$6.50 per month, bringing the average monthly bill to \$64.62.
14 15 16 17	VI.	requested rate increase would increase the average base amount in a customer's bill by approximately \$6.50 per month, bringing the average monthly bill to \$64.62. <u>SUMMARY OF PROPOSED RATE RELIEF AND IDENTIFICATION OF</u> <u>PROPOSED MODIFICATIONS TO PAC'S RATEMAKING STRUCTURE</u>
14 15 16 17 18	VI.	requested rate increase would increase the average base amount in a customer's bill by approximately \$6.50 per month, bringing the average monthly bill to \$64.62. <u>SUMMARY OF PROPOSED RATE RELIEF AND IDENTIFICATION OF</u> <u>PROPOSED MODIFICATIONS TO PAC'S RATEMAKING STRUCTURE</u> Mr. Goodhue, would you please briefly describe the rate relief requested in this
14 15 16 17 18 19	VI. Q.	requested rate increase would increase the average base amount in a customer's bill by approximately \$6.50 per month, bringing the average monthly bill to \$64.62. <u>SUMMARY OF PROPOSED RATE RELIEF AND IDENTIFICATION OF</u> <u>PROPOSED MODIFICATIONS TO PAC'S RATEMAKING STRUCTURE</u> Mr. Goodhue, would you please briefly describe the rate relief requested in this proceeding by PAC?

1	bringing its allowed revenues to a projected level of \$862,927, as detailed in PAC's rate
2	case filing at Tabs 12 and 13.

3

Is PAC requesting a step increase in this proceeding? **Q**.

A. No. PAC is not requesting a step increase in this proceeding. It is, however, filing for 4 temporary rates at current rates. A filing and testimony requesting this has been prepared 5 and is being filed contemporaneously with the filing of all other documents to this 6 proceeding. 7

Is the rate increase the only relief that PAC is seeking in this proceeding? 8 О.

A. No. For the background reasons explained earlier in this testimony, PAC is also 9

requesting that the Commission approve, pursuant to its general ratemaking authority, 10

such modifications to the ratemaking methodology for PAC that it approved for PWW in 11

12 DW 16-806 and DW 19-084, and as adopted by PEU as approved in DW 17-128. Please

see PAC's Petition for Further Modifications to Ratemaking Structure at Tab 11. As 13

described below, in order to provide a clear factual basis for the Commission's review of 14

the proposed modifications, PAC has prepared its ratemaking schedules to reflect not 15

only the operation of the current ratemaking method as established by the Commission in 16

- DW 11-026, but also operation of the modifications requested by PAC in its petition 17
- under the methodology approved in DW 16-806 and DW 19-084. The rate increase 18
- being requested by PAC in this case is based on the DW 16-806 and DW 19-084 19

modified methods reflected in the ratemaking schedules. 20

Q. Would you briefly describe the basis for this requested rate relief in more detail? 21

- A. The fundamental basis for this request is that it represents the revenues required to cover 22
- PAC's current operating expenses and to meet the demonstrated costs of servicing PAC's 23

1		direct debt obligations plus its share of the CBFRR. PAC has prepared its ratemaking
2		schedules to demonstrate this fundamental basis. This overall rate increase also included
3		the implementation of the modified rate structure elements approved for PWW in DW
4		16-806 and DW 19-084, and PEU in DW 17-128, exclusive of the QCPAC program.
5		These include:
6		• An OERR revenue component of allowed revenues, in its elemental pieces of an
7		MOERR, and NOERR and an MOEF, with the associated MOERR RSF fund;
8		• A DSRR-1.0 revenue component of allowed revenues, along with the associated
9		DSRR RSF fund;
10		• A DSRR 0.1 revenue component of allowed revenues;
11		• A five-year average test period to replace a single test year;
12		• Actual NH Business Enterprise Tax cash payments to be included in the OERR
13		portion of allowed revenues;
14		• Prioritization of the usage of the DSRR 0.1 funds;
15		• The recovery and inclusion of SFR and DWGTF debt issuance costs in the
16		Company's allowed revenues; and
17		• The re-establishment of imprest levels of RSF accounts, as a reconciliation
18		mechanism.
19	Q.	Please describe how the five-year averaging PAC is requesting in this proceeding
20		works under the modified rate methodology.
21	А.	The purpose of the five-year averaging is to develop pro forma test year data regarding
22		revenues and expenses which is less likely to reflect unusual or abnormal events, such as
23		a uniquely dry or wet summer. Under the DW 16-806 modified rate methodology, the

1		"test year" revenues use the trailing five-year average consumption at the most recently
2		approved volumetric rates and fixed charges. The five-year trailing average consumption
3		determination shall be based on the four calendar years immediately preceding the
4		designated test year for which the rate case is filed as well as the test year itself.
5		Additionally, all direct test year expenses which are affected by differences in
6		consumption, including but not limited to purchased water expense, electricity expense,
7		and chemical treatment expense, also include pro forma adjustments to reflect the pro
8		forma difference in consumption between the five-year average and the test year.
9		Although the modified methodology includes this five-year average test period for
10		computing its revenue deficiency, the prior Settlement Agreements that recommended
11		this five-year average specifically states that neither Staff nor the OCA are precluded
12		from making an alternative recommendation in place of the five-year average with
13		respect to the determination of revenue deficiency.
14	Q.	Please describe how you are asking the five-year average be implemented for PAC.
15	А.	We plan to calculate the full effect of the five-year average for the 2019 test year under
16		this rate case and include that pro forma calculation into this filing.
17	Q.	Please explain why PAC needs rate relief at this time?
18	A.	First, PAC has invested approximately \$409,000 in capital improvements and
19		infrastructure replacements since its last filed rate case for test year 2012 under Docket
20		No. DW 13-128, and the current rates do not include the necessary dollars in the existing
21		revenue requirement to fund the repayment of those debt instruments, for both principal
22		and interest. Second, operating expenses of the Company have increased at or above the
23		rate of inflation, as well as increases in property taxes, since that last filed permanent rate

1		filing. In the case of property taxes, the Company does proactively process abatements
2		for valuations that are deemed to be in excess of allowed or reasonable levels, given the
3		current RSA allowing for the taxation of Utility Property as Real Property at both the
4		State and Local level. Since its last rate case, PAC successfully negotiated a settlement
5		for property taxes with the Town of Pittsfield, for which the results of that settlement is
6		included in the operating expenses included in the filing schedules in support of the
7		requested revenue increase herein. Overall, the rate case being pursued at this time is
8		necessary to provide for the ongoing cash flow needs to fund ongoing operating expenses
9		and fund the repayment of debt obligations, as available to PAC in support of its ongoing
10		obligations to its ratepayers.
11 12	VII.	RATEMAKING SCHEDULES ARE FORMATTED PURSUANT TO PAC'S CURRENT AND PROPOSED RATEMAKING METHDOLOGY
13 14	Q.	Please discuss the format of the ratemaking schedules filed by PAC upon which the
13	Q.	
13 14	Q. A.	Please discuss the format of the ratemaking schedules filed by PAC upon which the
13 14 15		Please discuss the format of the ratemaking schedules filed by PAC upon which the requested rate relief is based.
13 14 15 16		Please discuss the format of the ratemaking schedules filed by PAC upon which the requested rate relief is based. PAC's requested rate relief is based on the modified ratemaking structure set forth in its
13 14 15 16 17		Please discuss the format of the ratemaking schedules filed by PAC upon which the requested rate relief is based. PAC's requested rate relief is based on the modified ratemaking structure set forth in its filed ratemaking schedules. As further described in the testimony of Mr. Ware, these
13 14 15 16 17 18		Please discuss the format of the ratemaking schedules filed by PAC upon which the requested rate relief is based. PAC's requested rate relief is based on the modified ratemaking structure set forth in its filed ratemaking schedules. As further described in the testimony of Mr. Ware, these schedules embody financial information and resulting rates attributable to three distinct
13 14 15 16 17 18 19		Please discuss the format of the ratemaking schedules filed by PAC upon which the requested rate relief is based. PAC's requested rate relief is based on the modified ratemaking structure set forth in its filed ratemaking schedules. As further described in the testimony of Mr. Ware, these schedules embody financial information and resulting rates attributable to three distinct scenarios: (1) application of the modified ratemaking structure approved by this
13 14 15 16 17 18 19 20		Please discuss the format of the ratemaking schedules filed by PAC upon which the requested rate relief is based. PAC's requested rate relief is based on the modified ratemaking structure set forth in its filed ratemaking schedules. As further described in the testimony of Mr. Ware, these schedules embody financial information and resulting rates attributable to three distinct scenarios: (1) application of the modified ratemaking structure approved by this Commission in DW 11-026; (2) application of this modified ratemaking structure
13 14 15 16 17 18 19 20 21		Please discuss the format of the ratemaking schedules filed by PAC upon which the requested rate relief is based. PAC's requested rate relief is based on the modified ratemaking structure set forth in its filed ratemaking schedules. As further described in the testimony of Mr. Ware, these schedules embody financial information and resulting rates attributable to three distinct scenarios: (1) application of the modified ratemaking structure approved by this Commission in DW 11-026; (2) application of this modified ratemaking structure including the modifications described in DW 16-806 and DW 19-084; and (3) application

1	Q.	Mr. Goodhue, how do the rates resulting from applying the DW 16-806 and DW 19-
2		084 modifications to PAC's ratemaking structure compare to the rates that would
3		result from application of the existing modified ratemaking structure approved by
4		the Commission in DW 11-026?
5	A.	As indicated in Mr. Ware's testimony and on Exhibit DLW-1, Tab 12 (Customer Impact),
6		the projected aggregate revenues estimated to be allowed under the current modified
7		ratemaking methodology (DW 11-026) would be \$820,922, a percentage increase over
8		the test period revenues of 6.35%. In contrast, as shown on the same Exhibit, the
9		projected aggregate revenues estimated to be allowed when the DW 16-806 and DW 19-
10		084 modifications are applied (including the implementation of the Material Operating
11		Expense Factor, or MOEF) would be \$862,927, a percentage increase over the test period
12		revenues of 11.18%. This overall increase, for the seven- year period from the last test
13		year of 2013, through the test year for this case of 2019, is approximately 1.5% per
14		annum, compounded, which is at or below the annual rate of inflation for the region for
15		that period of time.
16	Q.	If the current DW 11-026 methodology would result in a 6.35% increase, why are
17		you asking the Commission to modify the methodology which results in a 11.18%
18		increase?
19	А.	The current ratemaking methodology does not permit PAC to pay its obligations. As I
20		described in my testimony above, PAC's depreciation lives are well in excess of its debt
21		instrument lives. This means that the cash flow generated from depreciation does not
22		fully meet the principal repayments on issued debt. Additionally, the new methodology
23		is needed to: (1) insure adequate EBITDA coverage for PAC, as it relates to covenant

1		requirements for itself or a member of the consolidated corporate group, for which is its
2		source of working capital and intercompany loan funding, (2) provide adequate cash
3		flows from revenues to pay debt service, CBFRR and operating expenses, and (3) provide
4		adequate support funds in the form of the RSF accounts, to provide for cash funding
5		during times of revenue shortfalls and expense growth above inflationary levels between
6		rate case filings. In summary, if PAC continues to operate under the current DW 11-026
7		ratemaking methodology, the Company will become financially insolvent, especially as it
8		relates to possible capital project needs in the immediate future of a material nature, for
9		which its current rate structure would not provide adequate cash resources to support and
10		repay.
11	Q.	Mr. Goodhue, can you provide a projection of how PAC's rates would increase
12		under the proposed modified ratemaking methodology in the future?
12		under the proposed modified ratemaking methodology in the future:
13	А.	The Company anticipates rates would increase at approximately the rate of inflation
	А.	
13	А.	The Company anticipates rates would increase at approximately the rate of inflation
13 14	А.	The Company anticipates rates would increase at approximately the rate of inflation going forward. This is based upon the following assumptions: (1) the CBFRR revenues
13 14 15	А.	The Company anticipates rates would increase at approximately the rate of inflation going forward. This is based upon the following assumptions: (1) the CBFRR revenues of the Company will remain at a fixed level until 2042, (2) normal operating expenses
13 14 15 16	А.	The Company anticipates rates would increase at approximately the rate of inflation going forward. This is based upon the following assumptions: (1) the CBFRR revenues of the Company will remain at a fixed level until 2042, (2) normal operating expenses will increase at approximately the rate of inflation, (3) property taxes may continue to
13 14 15 16 17	Α.	The Company anticipates rates would increase at approximately the rate of inflation going forward. This is based upon the following assumptions: (1) the CBFRR revenues of the Company will remain at a fixed level until 2042, (2) normal operating expenses will increase at approximately the rate of inflation, (3) property taxes may continue to increase at rates of inflation or greater per annum, and (4) the Company will be investing
13 14 15 16 17 18	Α.	The Company anticipates rates would increase at approximately the rate of inflation going forward. This is based upon the following assumptions: (1) the CBFRR revenues of the Company will remain at a fixed level until 2042, (2) normal operating expenses will increase at approximately the rate of inflation, (3) property taxes may continue to increase at rates of inflation or greater per annum, and (4) the Company will be investing \$100,000-\$150,000 annually on capital and infrastructure improvements, at borrowed
13 14 15 16 17 18 19	Α.	The Company anticipates rates would increase at approximately the rate of inflation going forward. This is based upon the following assumptions: (1) the CBFRR revenues of the Company will remain at a fixed level until 2042, (2) normal operating expenses will increase at approximately the rate of inflation, (3) property taxes may continue to increase at rates of inflation or greater per annum, and (4) the Company will be investing \$100,000-\$150,000 annually on capital and infrastructure improvements, at borrowed interest rates of between 2.5-4.5%, with the exception of the new tank anticipated for
13 14 15 16 17 18 19 20	Α.	The Company anticipates rates would increase at approximately the rate of inflation going forward. This is based upon the following assumptions: (1) the CBFRR revenues of the Company will remain at a fixed level until 2042, (2) normal operating expenses will increase at approximately the rate of inflation, (3) property taxes may continue to increase at rates of inflation or greater per annum, and (4) the Company will be investing \$100,000-\$150,000 annually on capital and infrastructure improvements, at borrowed interest rates of between 2.5-4.5%, with the exception of the new tank anticipated for construction in 2022 at an estimated cost of \$800,000, as well as enhancements to its

1		revenues, and then "trued-up" for increases in operating expenses with rate cases filed
2		about every 3 years, to reset permanent rates, and to refill or refund monies from the RSF
3		accounts. Unlike PWW or PEU, PAC is not seeking a QCPAC program. This is because
4		PAC plans to time the completion of its major capital projects, which are over and above
5		"run rate" capital project investments in the next anticipated test year, for which
6		temporary rates or a step increase could be sought, with expected increases in fully-
7		reconcilable permanent rates in future rate case.
8	Q.	How would these projected resulting rates compare to the rates that would likely
9		have resulted under private ownership?
10	A.	These rates would continue to be lower than rates under private ownership as a subsidiary
11		of a publicly-traded investor owned utility. This is based upon the fact that the
12		Company's cost of debt is only 2.5-4.5% currently, whereas under that ownership
13		structure, PAC earned a ROE of approximately 16% pre-tax (at corporate tax rates at that
14		time, approximately 12% at current corporate tax rates), on approximately 50% of its
15		investments in infrastructure.
16	Q.	Has PAC prepared a cost of service study in connection with this filing?
17	А.	No. PAC is not seeking any change in rate design in this proceeding. There have not
18		been any significant changes in the composition of PAC's customer base, and therefore
19		PAC does not believe that a Cost of Service Study is required.
20	Q.	Has PAC provided PAC's payroll figures?
21	А.	PAC does not have its own employees. Instead it pays PWW a management fee under
22		which PWW provides employee services to PAC. The management fee is shown in Tab
23		12 at Sch 1 Attach C, Page 2.

1	Q.	Will PAC be seeking a temporary rate increase?
2	A.	Yes. PAC will be seeking temporary rates at current rates, as indicated earlier in this
3		testimony. The Company is filing for this to preserve its rights to full recoupment of new
4		permanent rates back to the statutorily allowed timeframe calculated from the date of
5		notice to customers. The Company is not seeking any temporary rate relief above its
6		current rates. The basis for the temporary rate request is described in separate testimony
7		to be offered jointly by Mr. Ware and me that supports PAC's petition for temporary
8		rates.
9	VIII.	NOTICE TO CUSTOMERS
10	Q.	Please describe PAC's efforts to communicate with the affected communities and
11		customers relative to this filing.
12	A.	As a matter of normal practice PAC will be communicating in writing with officials at
13		the Town of Pittsfield contemporaneous with the filing of this case. This communication
14		will be including the Town Manager of Pittsfield, as well as the slate of State Senators
15		and Representatives for that community. This communication was not done prior to this
16		filing due to certain limitations on effect and timely communication during this period of
17		COVID-19 alternate operations for the Company and the community served.
18		
19		Accompanying the required notice to customers, which will be sent to customers in
20		conformity with the regulations after this case is filed, we will be sending a Frequently
21		Asked Questions ("FAQ") document providing information about PAC's rate increase
22		request.

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1	IX.	REQUIRED APPROVALS AND CONSENTS
2	Q.	Would you please identify any approvals and consents required to affect the rate
3		relief and proposed modifications to PAC's ratemaking structure?
4	A.	The principal approval required to effect the requested permanent rate relief and proposed
5		modifications is the approval of this Commission under RSA 378:8 and :28. The
6		requested rate relief and proposed modifications have already been addressed and
7		approved in overall intent and concept by PAC's and Pennichuck's Board of Directors.
8	X.	JUST AND REASONABLE FINDING AND CONCLUSION
9	Q.	Mr. Goodhue, do you believe that PAC's proposed rate relief and application of the
10		modifications to the ratemaking structure described in DW 16-806 and DW 19-084
11		will result in just and reasonable rates?
12	A.	Yes. I believe the requested rates and the proposed modifications are just and reasonable
13		for several reasons.
14		First, the requested rates, including the effects of the proposed modifications to PAC's
15		ratemaking structure, are generally consistent with the long-term projections presented in
16		DW 11-026, which assumed an average annual increase in rates of approximately 3% and
17		with the fundamental premises underlying the Commission's approval of the City of
18		Nashua's acquisition of Pennichuck and its utilities. While the rate increase requested in
19		this proceeding, which reflects the cumulative revenue and operating requirements of
20		seven years with no permanent rate relief, is significant, when the cumulative increase is
21		examined as an average annual increase, it is generally consistent with, or is actually
22		below, the original assumptions of the acquisition docket, giving consideration to the fact
23		that property taxes have increased at a rate above levels contemplated at that time.

1	Second, the requested rates continue to be lower than the levels that are reasonably
2	projected to result from continued private investor ownership under the pre-acquisition
3	structure. This benefit to ratepayers, which was one of the principal reasons for the
4	approval of the City's acquisition, is due in large part to the fact that PAC has been
5	migrating to a utility that will finance all of its material capital needs by the issuance of
6	debt, which results in a materially lower weighted cost of capital than a private investor-
7	owned utility with a more traditional debt and equity capitalization.
8	Third, the requested rates are necessary to maintain PAC's ability to continue to provide
9	safe and high-quality water service, by financing continued reasonable and prudent
10	operations and by having access to borrowed funds necessary to finance required capital
11	assets and infrastructure.
12	Fourth, the requested modifications to PAC's current ratemaking structure are the result
13	of a careful examination of the experience obtained through the multiple major debt
14	financings completed for its sister subsidiary, PWW, as well as covenant compliancy
15	issues experienced by both PWW, PEU and its parent Pennichuck Corporation. This
16	experience allowed PWW to develop the specific modifications proposed and approved
17	in DW 16-806 and DW 19-084, and further to have confidence that these modifications
18	will enhance the ability of PWW, PEU and PAC to access debt markets and/or term loans
19	in the future at affordable interest rates and at reasonable covenants. In some ways, this
20	experience was an important prerequisite to developing the specific proposed
21	enhancements, which is why PWW pursued the modified rate structure first in DW 16-
22	806 and further modified it in DW 19-084, with the full expectation that this
23	methodology would then be applied to both PEU and PAC in their next rate case filings.

1		Fifth, based on the ratemaking schedules filed by PAC as part of this rate case, the
2		requested rates will demonstrably enable PAC to generate sufficient cash flows to support
3		its ongoing operational and capital needs, as well as service its existing outstanding debt
4		obligations.
5	Q.	Mr. Goodhue, do you believe that the requested rate relief and adoption of the
6		proposed modifications are required to ensure that PAC continues to be able to
7		provide safe and high-quality water service to its customers?
8	А.	Yes. PAC's current ratemaking structure only provides a fixed coverage component in
9		the revenue requirement for the repayment of principal and interest to the City of Nashua
10		under the CBFRR. Without an equity return allowable to the Company, PAC does not
11		have a rate structure which ensures adequate cash flow coverage to cover all of its
12		remaining operating expenses and the repayment of principal and interest on the balance
13		of its debt obligations. This is further exacerbated by the fact that the cash flow
14		generated from depreciation under the return on rate base is funded by assets with an
15		average composite life of approximately 39 years, with some assets at 85 year lives. This
16		cash flow is what is intended to provide the cash flow to repay the principal on debt used
17		to fund the investment in rate base. However, the maximum life of debt available to PAC
18		is 30 years. As such, the cash flow from depreciation is insufficient to cover the principal
19		repayment cash flow requirements. Additionally, without the free cash flow generated by
20		a return on equity, when PAC experiences reductions in revenue related to weather
21		related and other consumption anomalies, or its expenses increase over time associated
22		with inflation or other pressures, its revenues are not sufficient to meet the fixed
23		operating expenses of the Company. The cost of debt service for PAC, even at favorable

1		interest rates to the long term benefit of ratepayers, coupled with the increase of operating
2		expenses due to normal inflationary pressures, as well as increases above inflationary
3		levels for certain expense items (i.e. State and local property taxes), has and/or will create
4		a mismatch between the cash flow generated from a normal allowed rate of return and
5		depreciation expense on rate base, to the coverage of the cash flow requirements of
6		PAC's principal and interest payments and normal operating expenses. This inherent
7		mismatch which exists for PAC under the existing ratemaking structure (as a nearly
8		100% debt financed entity), coupled with the regulatory lag of obtaining rate relief 12-18
9		months after a given test year and a typical time frame of three years between rate cases
10		has created and will continue to result in the revenues allowed from traditional
11		ratemaking being insufficient to generate the necessary operating cash flows required to
12		cover all of the Company's operating expense and debt service needs, now and into the
13		future. The requested rate relief and proposed modifications to PAC's ratemaking
14		structure are precisely targeted to correct these deficiencies.
15	Q.	Mr. Goodhue, does this conclude your testimony?
16	А.	Yes, it does.

STATE OF NEW HAMPSHIRE

BEFORE THE

PUBLIC UTILITIES COMMISSION

Docket No. DW 16-806

Pennichuck Water Works, Inc. Request for Change in Rates

2016 RATE CASE

SETTLEMENT AGREEMENT

STATE OF NEW HAMPSHIRE

BEFORE THE

PUBLIC UTILITIES COMMISSION

Docket No. DW 16-806

PENNICHUCK WATER WORKS, INC.

REQUEST FOR CHANGE IN RATESSETTLEMENT AGREEMENT

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STATE OF NEW HAMPSHIRE

BEFORE THE

PUBLIC UTILITIES COMMISSION

DW 16-806

Pennichuck Water Works, Inc.

Petition for Change in Rates

SETTLEMENT AGREEMENT

This Settlement Agreement is entered into this 19th day of July, 2017 (the "<u>Agreement</u>"), by and among Pennichuck Water Works, Inc. ("<u>PWW</u>") (a subsidiary of Pennichuck Corporation ("<u>Penn Corp</u>"), the Staff of the New Hampshire Public Utilities Commission ("<u>Staff</u>"), and the Office of Consumer Advocate ("<u>OCA</u>"), with the intent of resolving all of the issues in the above-captioned docket. (The parties are referred to collectively in this Agreement as the "<u>Settling Parties</u>.")

I. PROCEDURAL HISTORY

A. On August 7, 2016, PWW filed a Notice of Intent to file rate schedules.

B. On September 23, 2016, the OCA filed notification with the Commission of its participation in this docket.

C. On September 26, 2016, PWW filed with the Commission formal petitions for permanent and temporary rates, along with testimony and supporting schedules. PWW also sought approval for certain modifications to the ratemaking protocols established and approved in the *Joint Petition of City of Nashua, Pennichuck Corporation et al, for Approval to Acquire*

Stock in Pennichuck Corporation, Order No. 25,292 (November 23, 2011) (the "<u>Acquisition</u> <u>Order</u>") in docket DW 11-026.

D. PWW's Permanent Rate Petition proposed a permanent increase in its water revenues (exclusive of Water Infrastructure and Conservation Adjustment (WICA) surcharge revenues)¹ of \$4,907,916, or 17.21%, resulting in an overall permanent revenue requirement of \$33,432,344. The proposed revenue increase was comprised of a calculated revenue deficiency of \$2,242,509, based on a pro forma 2015 test year, as well as an additional \$2,665,407 in revenues from a proposed step adjustment, based on capital improvements that were anticipated to be completed and used and useful by December 31, 2016. PWW's Temporary Rate Petition requested approval for a proposed temporary rate increase of \$1,771,116, or 6.21%.

E. On October 25, 2016, the Commission issued an Order of Notice suspending PWW's proposed revised tariff pages and scheduling a prehearing conference and technical session for November 21, 2016.

F. Subsequent to the November 21 prehearing conference, the parties conducted technical sessions during which PWW's request for temporary rates and a proposed procedural schedule were discussed.

G. On December 5, 2016, the Staff, on behalf of the other parties, filed a proposed procedural schedule with the Commission. On December 13, 2016, the Commission issued a Secretarial Letter approving the proposed procedural schedule.

¹ During the test year, PWW earned a total of \$29,298,819 in revenues from water sales. This amount is comprised of \$28,920,120 in permanent rate / special contract revenues, \$367,548 in WICA surcharge revenues, and \$11,151 in water resale revenues. Because the WICA revenue is earned via a billing surcharge and is not included in the permanent rates charged to customers, WICA revenues have been excluded for purposes of establishing individual customer rates. However, pro forma test year WICA surcharge revenues were taken into account relative to the establishment of PWW's overall revenue requirement.

H. PWW, the Staff, and the OCA (the Settling Parties) reached an agreement on the issue of temporary rates, which was filed with the Commission on December 8, 2016 (the "<u>Temporary Rate Settlement Agreement</u>"). In that agreement, the Settling Parties proposed that PWW should be authorized to implement temporary rates at the same level as current rates during the pendency of the rate proceeding. Additionally, the Settling Parties proposed that temporary rates be made effective on a bills-rendered basis on and after December 7, 2016.

I. At a hearing held on January 17, 2017, the merits of the Temporary Rate Settlement Agreement were presented before the Commission by the Settling Parties. On February 17, 2017, the Commission issued Order No. 25,990 granting approval of the proposed Temporary Rate Settlement Agreement.

J. During the course of the proceeding, the Staff and the OCA served numerous data requests on PWW, to which PWW provided responses. The parties to the proceeding also held a number of technical sessions in order to supplement the written discovery that was conducted.

K. On April 26, 2017, on behalf of the parties in the proceeding, Staff filed an Assented to Motion to Suspend the Procedural Schedule so as to enable the parties to continue the discussions necessary to reach a joint settlement on all issues relevant to this case. On April 27, 2017, the Commission issued a Secretarial Letter approving Staff's Motion to Suspend the Procedural Schedule.

II. RELEVANT BACKGROUND

A. Acquisition and Ownership by the City of Nashua.

1. PWW is a regulated public utility that is wholly-owned by Penn Corp, which is, in turn, a corporation that is wholly-owned by the City of Nashua, New Hampshire (the "<u>City</u>"). The City acquired its ownership of Penn Corp on January 25, 2012, pursuant to the

Acquisition Order. In addition to PWW, Penn Corp also owns two other water utilities: Pennichuck East Utility, Inc. (PEU) and Pittsfield Aqueduct Company, Inc. (PAC).

2. The Acquisition Order approved a settlement agreement among the parties to DW 11-026 (the "<u>DW 11-026 Settlement Agreement</u>"), subject to certain conditions. Among other things, the settling parties to the DW 11-026 Settlement Agreement recommended that the Commission approve the City's acquisition of Penn Corp, approve a modified ratemaking structure for Penn Corp's three water utilities (including PWW), approve the establishment of a \$5,000,000 Rate Stabilization Fund ("<u>RSF</u>") to be maintained by PWW, and approve certain accounting matters and limitations on dividends and distributions from the three utilities to Penn Corp. These special provisions were instituted in order to allow the three utilities to have "rates at levels that are sufficient to enable each utility to meet their operating requirements and to satisfy each utility's apportioned share of responsibility to pay the debt service arising from the City Acquisition Bonds."² (See DW 11-026 Settlement Agreement at 8.)³

B. Post-Acquisition Financings and Experience.

1. Subsequent to the City's acquisition, Penn Corp's management has pursued several debt financings for its utilities. These financings have included the issuances of up to \$54,500,000 in debt by PWW which is described in Commission Order No. 25,734 (November 7, 2014) in docket DW 14-130 and of up to \$25,500,000 in debt by PWW described in Commission Order No. 25,808 (September 2, 2015) in docket DW 15-196. The negotiation and completion of these financings has provided Penn Corp's management with actual

² The rate component representing PWW's acquisition bond repayment obligation is described as the "City Bond Fixed Revenue Requirement" (CBFRR). During the test year, PWW's CBFRR was \$7,465,139.

³An example of the rate-making methodology described in the DW 11-026 Settlement Agreement is shown on Settlement Attachment JPL-1, Schedule 1 – Original Rate Structure.

experience as well as direct input and insights from the capital markets (<u>i.e.</u>, lenders) regarding the response to the ownership of Penn Corp by the City, in addition to the operation of the utilities and the ratemaking methodology approved in the Acquisition Order within the new ownership structure.

2. The change in the ultimate ownership of Penn Corp, from a publiclytraded investor-owned utility to ownership by the City has had many important consequences, including the fact that Penn Corp and its three utilities no longer have access to equity financing markets as a means of financing its capital and operating needs. Accordingly, Penn Corp and its utilities are now required to finance their on-going capital needs entirely through the issuance of debt.

3. Based on the experience of Penn Corp's management since the City's acquisition, as described in PWW's testimony in this as well as the prior two financing dockets identified above, PWW is now seeking modifications to the ratemaking structure approved in the Acquisition Order as well as an increase in its permanent rates as determined pursuant to the proposed modified ratemaking structure. The Settling Parties agree that, for the reasons described in PWW's testimony as supplemented through discovery, modifications to PWW's ratemaking structure will not only increase PWW's required access to the credit markets, but also will more than likely result in an enhanced credit rating. Thus, PWW will be able to access lower cost debt, which will ultimately be to the benefit of ratepayers.

III. TERMS OF THIS SETTLEMENT AGREEMENT

The Settling Parties agree and recommend action by the Commission in the form of approving the following:

A. Revenue Requirement, Permanent Rates, and Step Increase.

1. The Settling Parties agree to a total revenue requirement for PWW in the amount of \$31,496,789 as calculated based on the proposed modified rate structure. (See "C. Modifications to Ratemaking Structure" below.) In deriving this revenue requirement, the Settling Parties agree to a permanent rate increase of \$887,591, or 3.12%, based on pro forma test year 2015, as well as a step increase of \$2,186,127, or 7.69%, based on 2016 and certain 2017 plant additions which will be fully in service and used and useful at the time such rates are implemented.⁴ The components of PWW's total proposed revenue requirement are summarized on Exhibit 1.⁵ The proposed rate increases for each of PWW's rate classes are shown in Exhibit <u>2</u>.

2. The Settling Parties agree that the underlying costs of the 2016 and 2017 plant additions upon which the proposed step adjustment is based shall be audited by the Commission Audit Staff prior to the implementation of customer rates. The Settling Parties agree that certain 2016 WICA related plant additions have previously been reviewed by the Commission Audit Staff relative to PWW's WICA filing in docket DW 17-017 and that the Commission Audit Staff issued a report of its examination on such dated March 24, 2017. A copy of that Audit Report is included in this Settlement Agreement as <u>Exhibit 3</u>. The Settling Parties agree that the Audit Staff shall issue a Final Audit Report based on its examination of the remaining 2016 and 2017 plant additions, and that if such report reveals a material difference between the actual underlying costs of those assets and the asset costs upon which the proposed

⁴ Settlement Attachment JPL-1, Schedule 9 indicates that PWW invested a total of \$20,124,921 in used and useful plant additions during 2016. These plant additions were financed by various loans which appear on Schedule 1C-Step of Attachment JPL-1. The debt service associated with these loans is included in the total revenue requirement being proposed for PWW. However, as of 12/31/16, a total of \$2,795,188 in loan proceeds were unexpended relative to PWW's BNY Mellon-2014 Series A Bond issuance, but have since been expended in order to finance various projects which were completed and became used and useful during 2017.

 $^{^{5}}$ The calculations of the permanent rate increase and the step increase are fully detailed in Settlement Attachment JPL-1 and summarized on Schedule 1 – Modified Rate Structure of that attachment.

step adjustment is based, an appropriate adjustment in the proposed step adjustment shall be recommended to the Commission for approval.

3. The Settling Parties agree that this represents a reasonable compromise of all issues relating to the revenue requirement pending before the Commission for the purposes of permanent rates and the step adjustment, including, but not limited to, debt service, pro forma adjustments, capital additions, and operating expenses. As the sums expressed above are the result of compromise and settlement, they are liquidations of all revenue requirement issues and do not constitute precedent regarding any particular principle or issue. The Settling Parties agree that the revenue requirement recommended to the Commission results in rates for PWW's customers that are just and reasonable.

B. Effective Date for Permanent Rate and Step Adjustment.

1. The Settling Parties agree that the permanent rate increase of \$887,591, or 3.12%, shall be effective on a bills-rendered basis on and after December 7, 2017 in accordance with the Temporary Rate Settlement Agreement approved by Commission Order No. 25,990. In order to reconcile the difference between temporary rates and permanent rates, the Settling Parties agree that PWW should be authorized to either refund or charge customers an amount equal to the difference between the revenues PWW would have collected had the agreed upon level of permanent rates been in effect for bills rendered on and after December 7, 2016, and the actual revenues collected during the temporary rate period, inclusive of the WICA surcharge. Specifically, with regard to PWW's "Core Water System" customers, who have been assessed the WICA surcharge, PWW will either charge or refund the calculated difference within a one billing-month period. However, with regard to PWW's "Community Water System" customers,

who have not been assessed the WICA surcharge, PWW will either charge or refund the calculated difference over a twelve billing-month period.

2. Upon the issuance of a Commission order approving this Agreement, PWW agrees to file, within 30 days of such, a calculation of the temporary-permanent rate recoupment and surcharge recommendation for Commission review. PWW shall also provide a copy of its calculation and recommendation to the OCA. The refunds or surcharges shall be calculated based on each customer's actual usage and reflected as a separate item on all customer bills. Upon receipt of the Commission's order on PWW's proposed temporary-permanent rate recoupment, PWW agrees to file, within 15 days of such, a compliance tariff supplement including the approved refund or surcharge relating to the total recoupment of the difference between the level of temporary rates and permanent rates, as well as the average monthly refund or surcharge for each customer class based on customers' individual usage.

The Settling Parties agree that the step increase described in Section III(A)(1) and (2) shall be effective as of the date of the Commission order approving this Agreement.

4. The results of the revenue increases by customer class are set forth in <u>Exhibit 2</u> to this Agreement. The monthly bill of an average residential customer using 8.58 hundred cubic feet (ccf) of water per month will increase from \$50.12 (inclusive of the WICA surcharge) to \$54.00, or \$3.88. This translates into an annual increase of \$46.56.

5. The Settling Parties agree that PWW should file tariff pages implementing the terms contained in this Agreement by no later than 15 days from the date of the Commission order approving this Agreement.

C. Modifications to Ratemaking Structure.

1. Reasons for Modifications to PWW's Ratemaking Structure.

a. In the Acquisition Order, the Commission approved a unique ratemaking structure as set forth in the DW 11-026 Settlement Agreement which was to be applied with respect to the future rate cases of each of the three regulated utilities owned by Penn Corp. In a subsequent order, the Commission approved clarifications to this ratemaking structure (See Commission Order No. 25,693 (July 5, 2014) at 3 in DW 13-130). The instant Agreement refers to this ratemaking structure, including the Commission's subsequent approved clarifications, as the "Original Rate Structure".

b. The Commission's approval of the Original Rate Structure provides guidance to interested stakeholders – such as the City, its lenders, the utilities and their management, their regulators, current and potential lenders to the utilities, and credit rating agencies – concerning how the Penn Corp utilities shall file for rate relief in subsequent rate cases, as well as the parameters under which the Commission shall review and set rates for those utilities in the future. While the Commission always retains all jurisdiction and authority to set just and reasonable rates in accordance with the Federal and State Constitutions and applicable statutes, the Settling Parties agree and reaffirm that the Commission's provision of guidance regarding rate-setting with respect to the Penn Corp utilities, within the context where they are ultimately owned by the City, is in the public interest. Further, given the fact that the City does not seek a traditional equity-based rate of return, in that it has no equity investment in the Penn Corp utilities, necessitates that modifications be made to the traditional rate-setting method in order to ensure that those utilities will have rates at levels that are sufficient to enable each to meet their respective operating requirements, to satisfy their respective apportioned share of

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responsibility to pay the debt service arising from the City Acquisition Bonds, as well as to pay their respective debt service obligations arising from borrowings accomplished to finance their capital needs.

2. <u>Specific Ratemaking Modifications</u>.⁶

The Settling Parties agree and recommend that, in addition to approving the rates as set forth above, the Commission also approve, pursuant to RSA 378:7 and RSA 378:28, the specific modifications to the Original Rate Structure applicable to PWW as set forth in the following paragraphs of this Agreement and as reflected in the proposed rates.

a. <u>5-Year Average Test Period</u>. PWW has proposed to substitute a five-year historical test period in place of the current single historical test year. The purpose for this proposal is to develop pro forma test year data regarding revenues and expenses which is less likely to reflect unusual or abnormal events, such as a uniquely dry or wet summer. The Settling Parties agree that PWW shall compute "test year" revenues using the trailing five-year average consumption at the most recently approved volumetric rates and fixed charges. The Settling Parties also agree that the five-year trailing average consumption determination shall be based on the four calendar years immediately preceding the designated test year for which the rate case is filed as well as the test year itself. Additionally, all direct test year expenses which are effected by differences in consumption, including but not limited to purchased water expense, electricity expense, and chemical treatment expense, shall also include pro forma adjustments with respect to the financial data of each year that is included in the determination of the five-year average in

 $^{^{6}}$ Exhibit 4 more fully describes the ratemaking modifications proposed in this section.

accordance with current principles. Further, the Settling Parties agree that PWW's use of a five-

year average test period in computing its revenue deficiency in no way precludes either the Staff

or the OCA from making an alternative recommendation in place of such with respect to the

determination of PWW's revenue deficiency.

b. <u>Revenue Requirement Components</u>. The Settling Parties agree

that PWW's overall revenue requirement shall consist of the following three components:

- 1. **City Bond Fixed Revenue Requirement** (CBFRR) as described in the Original Rate Structure.
- 2. **Operating Expense Revenue Requirement** (OERR) which is further composed of the following:
 - a. **Material Operating Expense Revenue Requirement** (MOERR).
 - b. Non-Material Operating Expense Revenue Requirement (NOERR).
- 3. **Debt Service Revenue Requirement** (DSRR) which is further composed of the following:
 - a. **Debt Service Revenue Requirement 1.0** (DSRR-1.0)
 - b. **Debt Service Revenue Requirement 0.1** (DSRR-0.1)

b1. City Bond Fixed Revenue Requirement (CBFRR). The Settling

Parties agree that the purpose of the CBFRR shall remain unchanged from that originally defined within the Original Rate Structure; that is, to include within PWW's overall revenue requirement a fixed rate level that is sufficient to enable PWW to contribute its apportioned share towards the repayment of the debt service arising from the City Acquisition Bonds. (See DW 11-026 Settlement Agreement at 8.) The Settling Parties further agree that PWW's CBFRR component should be increased from an annual amount of \$7,465,139 as reflected in the test year to an annual amount of \$7,729,032 as reflected in the proposed revenue requirement above. The reason for this increase is because under the Original Rate Structure, the revenue necessary to

repay the City for the \$5,000,000 portion of the Acquisition Bonds used to fund the RSF was derived as part of PWW's return on its rate base investment. However, the proposed Modified Rate Structure does not include a return on rate base component. Therefore, a ratable share (based on PWW's approved revenue requirement in its last full rate proceeding, DW 13-130) of the \$5,000,000 RSF has been added to its previously apportioned share of the City Acquisition Bonds in order to derive the new annual CBFRR amount. The detailed calculation of the revised CBFRR is contained on Exhibit 5 to this Settlement Agreement.

b2. **Operating Expense Revenue Requirement (OERR).** The Settling Parties agree that PWW shall include in its overall revenue requirement an "Operating Expense Revenue Requirement" amount ("OERR"), which shall be equal to the sum of PWW's pro forma test year Operation and Maintenance Expenses, Property Tax Expense, Payroll Tax Expense, and Amortization Expense. The Settling Parties agree that the overall OERR revenue component shall be further segregated between a "Material Operating Expense Revenue Requirement" ("MOERR") component and a "Non-Material Operating Expense Revenue Requirement" ("NOERR") component. The Settling Parties agree that the MOERR shall include all expense items included in the OERR with the exception of those expense items which are specifically included in the NOERR (identified below). The Settling Parties agree that certain operating expenses should be designated as "Non-Material Operating Expense Revenue Requirement" (NOERR) items due to the potential susceptibility of such to be found to be completely or partially imprudently incurred within the context of a rate proceeding. However, the Settling Parties further agree that the categorization of an expense item in the NOERR does not preclude PWW's recovery of such in rates, as long as that expense item is found to be prudently incurred within the pro forma test year. Rather, those expenses which are designated

as NOERR items shall not be included in any use of or replenishment from the "Material Operating Expense Revenue Requirement Rate Stabilization Fund" (MOERR RSF) described below. The Settling Parties agree that the following operating expenses are identified as NOERR expense items:

<u>PWW Account</u>	Description
921002-001-2109	Senior Management Vehicles
921003-001-2109	Senior Management – Fuel Purchased
921004-001-2109	Senior Management – Vehicle Registration
923000-001-2109	Outside Services
926001-001-2109	Officer's Life Insurance
926500-001-2109	Miscellaneous Employee Benefits
926501-001-2109	Miscellaneous Employee Benefits – Wellness
926502-001-2109	Miscellaneous Employee Benefits – Activities
926505-001-2109	Employee Relations
926600-001-2109	Tuition Reimbursements
926610-001-2109	Training Educational Seminars
930100-001-2109	Meetings & Conventions
930101-001-2109	Memberships
930200-001-2109	Public Relations
930300-001-2109	Meals
930410-001-2109	Charitable Contributions

b3. Debt Service Revenue Requirement (DSRR). The Settling

Parties agree that PWW shall include in its overall revenue requirement a "Debt Service Revenue Requirement" amount ("<u>DSRR</u>"), the total of which shall generally be equal to 1.1 times the pro forma annual principal and interest payments on PWW's outstanding long-term debt as of the end of the pro forma test year. The Settling Parties agree that the proposed DSRR <u>essentially</u> replaces both return on rate base as well as depreciation expense which are traditionally key components of utility rate-making before this Commission. However, the Settling Parties are in agreement that, given PWW's current complete reliance on debt capital, as stated above, a rate structure based on debt service (i.e. total annual principal and interest) is critical to enabling PWW to access the lowest cost debt financing it can obtain, in order to provide safe and reliable

service to its customers at the lowest possible rates. The Settling Parties agree that the DSRR shall be segregated into two revenue components. The first shall be equal to 100% of the pro forma debt service payments for the test year, and shall be referred to as "DSRR-1.0." The second component shall be equal to 10% of the pro forma debt service payments for the test year, and shall be referred to as the "DSRR-0.1". The establishment of the DSRR-1.0 relates to the use and replenishment of the DSRR-1.0 RSF which is explained below. The intended purposes for the establishment of the DSRR-0.1 are 1) to allow for the collection of revenues sufficient to satisfy the debt service coverage ratio requirements of PWW's bond financings and Penn Corp's covenant requirements for its line of credit, which is used by Penn Corp and its subsidiaries as a "back stop" for short-term capital needs; and 2) to allow PWW to collect revenues over-andabove its actual debt service in order to comply with cash flow coverage requirements which are typical for such financings as well as to meet obligations on new debt incurred between rate filings. The Settling Parties agree that any accumulated DSRR-0.1 revenues at the end of a given fiscal year will be utilized as the first funding source for capital expenditures incurred during the first months of the succeeding fiscal year, leading up to an annual bonding or financing event in support of capital expenditures for that succeeding year. The Settling Parties further agree that once approved by the Commission within the context of a rate proceeding, PWW's DSRR-1.0 and DSRR-0.1 amounts shall remain in effect until a subsequent rate proceeding, at which time new DSRR values shall be computed.

c. Allocation of the \$5,000,000 RSF amongst the Penn Corp

Utilities. The Settling Parties agree that the current \$5,000,000 Rate Stabilization Fund (RSF) maintained by PWW, which was established under the Original Rate Structure, should be reallocated amongst the three Penn Corp utilities such that PWW's allocated share of the RSF shall

now be \$3,920,000, with the remaining balance of \$1,080,000 to be allocated between PEU and PAC. The allocation to PWW is based on the respective three utilities' last Commission approved revenue requirements as detailed on <u>Exhibit 6</u> of this Settlement Agreement. The Settling Parties agree that the \$1,080,000 portion of the RSF that is proposed to be allocated between PEU and PAC shall remain in PWW's RSF cash account until such time that rate case filings are made for PEU and PAC.⁷ At that time, the modified rate structure for PWW that is proposed in this settlement agreement will also be requested as the proposed rate structures for both PEU and PAC. If the respective rate structures for PEU and PAC are approved by the Commission, the \$1,080,000 will then be transferred from PWW's RSF funds to the respective RSF funds to be established in PEU and PAC.

d. <u>Allocation of the \$3,920,000 PWW RSF</u>. In order to better

ensure that customer rates remain stable, even under adverse conditions, as well as to enable PWW to meet all of its cash obligations under such conditions, the Settling Parties agree that PWW's apportioned share of the RSF in the amount of \$3,920,000 should be allocated among three reserve funds as follows:

- 1. **CBFRR RSF -** \$ 680,000
- 2. MOERR RSF \$2,850,000
- 3. DSRR-1.0 RSF \$ 390,000

d1. City Bond Fixed Revenue Requirement Rate Stabilization

Fund (CBFRR RSF). The Settling Parties agree that the purpose of this reserve fund will remain unchanged from its original establishment under the Original Rate Structure; that is, to

⁷ It is anticipated that PEU will make a rate filing later in 2017.

enable PWW to maintain stable water rates, even under adverse conditions, by providing a mechanism to ensure that PWW will meet its obligations relative to the City Acquisition Bond. (See DW 11-026 Settlement Agreement at 13ff.) However, the Settling Parties also agree that the amount of the CBFRR RSF should be reduced from \$3,920,000 to \$680,000 as calculated on Exhibit 6 of this Settlement Agreement. The difference of \$3,240,000 will be used to initially fund the MOERR RSF (\$2,850,000) as well as the DSRR-1.0 RSF (\$390,000). The CBFRR RSF shall continue to be established and maintained at a level of \$680,000 in accordance with the existing guidelines for the RSF approved in the DW 11-026 Acquisition Order.

d2. Material Operating Expense Revenue Requirement Rate Stabilization Fund (MOERR RSF). The Settling Parties agree that, similar to the CBFRR RSF established under the Original Rate Structure, this fund will be used to ensure stable rates by enabling PWW to meet its material operating expense obligations in the event of adverse revenue developments such as lower than expected consumption patterns due to wet weather and/or increases in material operating expenses above anticipated levels that occur between test years. The establishment of the MOERR RSF is intended to provide lenders to PWW with reasonable assurances that PWW will have the necessary cash available to pay its material operating expenses while, at the same time, having sufficient cash reserves to ensure payment of its debt service obligations on its issued long-term debt. The existence of cash reserves by PWW will accordingly facilitate PWW's ability to borrow funds at reasonable interest rates and on reasonable terms, which will directly benefit customers in the form of a reduced debt service requirement. The MOERR RSF will be established and maintained in accordance with the procedures set forth in <u>Exhibit 4</u> to this Agreement. The Settling Parties agree that the MOERR

RSF should be initially established at an imprest level of \$2,850,000 via a transfer of funds in such amount from the CBFRR RSF.

d3. Debt Service Revenue Requirement-1.0 Rate Stabilization Fund (DSRR-1.0 RSF). The Settling Parties agree that, similar to the CBFRR RSF established under the Original Rate Structure, this fund will be used to ensure that, even in adverse revenue conditions such as wet weather, there will be a sufficient cash reserve available to enable PWW to pay the debt service obligations on its long-term debt. The Settling Parties agree that the intended purpose for the establishment of the DSRR-1.0 RSF is to provide PWW's lenders with reasonable assurances that PWW will have sufficient cash available to pay its debt service obligations. This will better facilitate PWW's ability to borrow funds at reasonable interest rates and on reasonable terms, which will directly benefit customers in the form of a lower debt service requirement. The DSRR-1.0 RSF will be established and maintained in accordance with the procedures set forth in <u>Exhibit 4</u> to this Agreement. The Settling Parties agree that the DSRR-1.0 RSF should be initially established at an imprest level of \$390,000 via a transfer of funds in such amount from the CBFRR RSF.

e. <u>Establishment of a Qualified Capital Project Annual</u>

Adjustment Charge (QCPAC). In Order No. 25,230 (June 9, 2011) in docket DW 10-091, the Commission approved a pilot Water Infrastructure and Conservation Adjustment ("<u>WICA</u>") mechanism. The Commission extended the pilot program in Order No. 25,693 in DW 13-130. The Settling Parties agree that the concept of an on-going annual surcharge between rate cases, based on essentially all of the capital projects undertaken and completed by PWW each year, is appropriate and helps to maintain adequate cash flows. Such adjustment surcharge is to be implemented pursuant to a capital budget that has been previously reviewed and approved by the

Commission. Similar to the WICA, this approach offers an effective and balanced interim mechanism to allow PWW to collect revenues in order to service the debt obligations that will be incurred to finance the capital projects which have been placed in service and are used and useful between full rate case filings. Such a mechanism also serves to mitigate rate shock for customers. Specifically, the Settling Parties agree to replace the WICA program with an annual "Qualified Capital Project Adjustment Charge" ("<u>OCPAC</u>") in accordance with the following provisions:⁸

- (i) QCPAC eligible projects must meet the following criteria: 1) the capital project proposed by PWW must be completed, in service, and used and useful within the previous fiscal year for which the QCPAC filing is made; 2) the capital project must have been financed by debt that has been approved by the Commission in accordance with RSA 369; and, 3) the capital project must specifically correspond with a capital budget which has been previously submitted by PWW and approved by the Commission.
- PWW shall make a filing with the Commission detailing the eligible projects and the amounts expended to acquire and/or construct such assets by no later than March 15 immediately following the fiscal year subject to the QCPAC. This filing will be the basis for the surcharge being requested in the current year relative to those eligible capital projects which meet the criteria stated in subparagraph (i).

⁸ QCPAC Process Flow Diagrams that illustrate how the QCPAC mechanism will be applied are attached as <u>Exhibit 7</u>.

- (iii) PWW shall also file a capital budget for all capital project expenditures for the current fiscal year in which a QCPAC filing is made for the purpose of receiving preliminary approval of such from the Commission. PWW shall also submit a forecast of capital project expenditures for the following two fiscal years for informational purposes only. These submissions will be made as part of each QCPAC filing described in subparagraph (ii).
- (iv) Commission review of the respective filings will be initiated upon the filings described in subparagraphs (ii) and (iii), with a ruling upon such requests anticipated in approximately September of each year.⁹ Such review shall also consist of an audit, as well as an accompanying report thereon, by the NHPUC Audit Staff.
- (v) The Settling Parties agree that, due to the nature of the QCPAC program whereby filings will occur on an annual basis, PWW's submissions to the Commission should accurately reflect actual project costs and be substantially free of material errors. If, after review of PWW's filings, including an examination by the NHPUC Audit Staff of the underlying documentation in support thereof, either the Staff or the OCA deems those filings to be materially deficient in any respect, either may make a recommendation to the Commission to immediately reject the filings.

⁹ Because PWW's first interest payment on bonded debt is due six months after issuance (anticipated for September 1 each year), if the Commission has not ruled on the QCPAC step increase request, PWW will fund such interest payments from the DSRR-1.0 RSF or the working capital line of credit until such time as the QCPAC is approved by the Commission.

- (vi) Upon approval of a QCPAC by the Commission, the QCPAC shall become eligible for annual recoupment for bills rendered after the date for which bonded debt or other financing that is incurred with respect to the specific eligible projects is issued or consummated. It is anticipated that this date will be approximately March 1 of each year.
- (vii) The QCPAC surcharge shall consist of: (1) the annual principal and interest payments with respect to the applicable capital project debt, multiplied by 1.1; and (2) incremental property taxes associated with the specific capital projects, as determined in the year of the granting of the QCPAC for such projects.
- (viii) Notice to customers shall be made each year in conjunction with the annual filing described in subparagraph (ii) above, within 30 days of the date of such filing.
- (ix) Customer bills will include the annual QCPAC upon the issuance of an order approving such surcharge, in the month following the effective date of the order.
- (x) After PWW's submission of the current year annual capital budget, PWW shall also file quarterly updates with the Commission for the purpose of keeping the Commission apprised of its progress with regard to its proposed current year capital projects. PWW shall file these quarterly updates with the Commission on July 15, October 15, and January 15.

f. Withdrawal of PWW's Pending WICA Filing and

Replacement by an Interim QCPAC Filing. The Settling Parties agree that the QCPAC mechanism should replace the WICA pilot program. On January 31, 2017, in accordance with the WICA pilot program, PWW submitted a filing in request of approval of an increase in its WICA surcharge based on the completion of certain WICA eligible projects during 2016.

PWW's filing also requested Commission approval of PWW's proposed 2017 WICA eligible projects as well as preliminary approval of its anticipated 2018 WICA eligible projects. PWW's submission was assigned Docket No. DW 17-017. Staff propounded discovery on PWW's submission to which responses have been received. Additionally, as stated above, the NHPUC Audit Staff has performed an examination of the underlying costs related to PWW's 2016 WICA eligible projects and has submitted a report on its findings. (See Exhibit 3) The Settling Parties agree that the 2016 capital projects upon which the proposed step adjustment in this Settlement Agreement is based are inclusive of the 2016 WICA eligible projects upon which the proposed increase in the WICA surcharge in DW 17-017 is based. Therefore, the Settling Parties agree that upon approval of this Settlement Agreement by the Commission, PWW shall withdraw its WICA filing in DW 17-017 and that docket be closed. In place of that WICA filing, the Settling Parties agree that PWW shall file an interim QCPAC submission with the Commission within 15 days of the Commission's order approving this Settlement Agreement. The interim OCPAC submission shall include the anticipated 2017 QCPAC budget and a forecast of capital project expenditures for fiscal years 2018 and 2019. PWW's proposed capital budget for 2017 shall specifically correspond with PWW's anticipated filing for financing approval of its 2017 capital projects.

3. Administrative and Rate Case Requirements.

a. As noted above, the Settling Parties agree and recommend that the Commission approve the modifications to the Current Ratemaking Structure described above. The details of the computations and impacts of these proposed modifications are reflected in Attachment JPL-1 to this Settlement Agreement. The Settling Parties further agree and recommend that the Commission require PWW to file its next rate case in accordance with the

procedures and methodologies described in this Settlement Agreement and consistent with the computations set forth in in the exhibits and attachments to this Settlement Agreement.

b. An important objective of the proposed modified rate structure is to increase PWW's access to credit markets at enhanced credit ratings, giving PWW access to lower cost debt, to the benefit of its customers. The Settling Parties agree and recommend that the Commission require PWW to provide written notice to the Commission, the Staff and the OCA of any changes in its credit rating status with any applicable credit rating agency, including a copy of the credit rating agency's notice of such change, if a written notice is in fact provided by the agency as of the time of the change, within 30 days after PWW receives notice of such a change.

c. The Settling Parties agree and recommend that the Commission require PWW to provide monthly reports to the Commission, the Staff and the OCA regarding the status of the CBFRR RSF, the DSRR-1.0 RSF, and the MOERR RSF at the times PWW files its monthly statement of operations with the Commission.

d. The Settling Parties agree PWW should be required to file a full rate case in certain situations when the total amount of funds held in the CBFRR RSF, the DSRR-1.0 RSF, and the MOERR RSF as maintained for the benefit of PWW (the "<u>Combined</u> <u>PWW Rate Stabilization Funds</u>") grow to be materially greater than the target of such funds most recently established by the Commission. As such, the Settling Parties agree and recommend that the Commission require PWW to file a full rate case at any time that the average of the amounts of cash held in the Combined PWW Rate Stabilization Funds as of the last day of each month for the 13-month period ending on December 31 of each year is greater than 150% of the combined target amount for such funds as most recently established by the Commission. When the

monthly reports filed by PWW indicate that this excess amount has occurred, then PWW shall file a full rate case within 6 months following the filing of such monthly report. In the next rate case, the Company understands that the parties may issue data requests seeking a comparison of the revenue requirements under the instant settlement agreement, and those that would have been required under the rate-making structure established in Docket No. DW 11-026. If a party makes such a request, the Company agrees to furnish such data to the best of its ability.

D. Rate Case Expense Surcharge.

The Settling Parties agree and recommend to the Commission that PWW should be allowed to recover its reasonable rate case expenses for this proceeding through a surcharge. PWW's rate case expenses may include, but are not limited to, its legal and consultant expenses, as well as its incremental administrative expenses such as copying and delivery charges. PWW agrees to file its final rate case expense request, pursuant to Puc 1905.02, no later than 30 days from the date of the Commission's order approving this Settlement Agreement. The Staff and the OCA will have an opportunity to review rate case expenses and provide recommendations to the Commission for approval.

E. PWW Request for Distribution for City Eminent Domain Expenses.

The Settling Parties agree and recommend to the Commission that PWW's request to enhance the CBFRR component of the current ratemaking schedule to include an amount for repayment of the City of Nashua's eminent domain expenses should be denied. The Settling Parties agree and recommend that the Commission should clarify and require that neither PWW, PEU or PAC may collect revenues from customers for the purpose of distributing cash to Penn Corp or ultimately as a special dividend or other form of distribution to the City to reimburse eminent domain costs or for any other purpose whatsoever. The Settling Parties further agree

and recommend that the dividend restrictions contained in the DW 11-026 Settlement Agreement remain in full force and effect.

IV. Conditions

1. The Settling Parties expressly condition their support of this Agreement upon the Commission's acceptance of all its provisions, without change or condition. If the Commission does not accept the provisions in their entirety, without change or condition, any party hereto, at its sole option exercised within 15 days of such Commission order, may withdraw from this Agreement, in which event it shall be deemed to be null and void and without effect and shall not be relied upon by any Settling Party to this proceeding or by the Commission for any purpose.

2. The Commission's acceptance of this Agreement does not constitute continuing approval of, or precedent regarding, any particular principle or issue in this proceeding, but such acceptance does constitute a determination that the adjustments and provisions set forth herein in their totality are just and reasonable and consistent with the public interest. In its order addressing the approvals recommended in this Agreement, the Commission should expressly find that the approvals recommended herein are unique to this case and should not be viewed as having precedential impact with respect to any particular principle or issue in this proceeding for any other case or situation for reasons.

3. The discussions that produced this Agreement have been conducted on the explicit understanding that all offers of settlement relating thereto are and shall be confidential, shall be without prejudice to the position of any party or participant representing any such offer or participating in any such discussion, and are not to be used in connection with any future proceeding or otherwise.

4. This Agreement may be executed in counterparts.

IN WITNESS WHEREOF, the Settling Parties have caused this Agreement to be duly

executed in their respective names by their fully authorized agents.

PENNICHUCK WATER WORKS, INC. By its attorneys Rath, Young and Pignatelli, P.C.

Dated: 7-19-17

Dated: 7/19/17

Bv: leer Richard W. Head

STAFF OF NEW HAMPSHIRE PUBLIC UTILITIES COMMISSION

By: John Clifford

Staff Attorney

OFFICE OF CONSUMER ADVOCATE

M By D. Maurice Kreis

Consumer Advocate

Dated: 7 19 2017

Docket No. 20-153 Exhibit 1

LDG Exibit 2

STATE OF NEW HAMPSHIRE

BEFORE THE

PUBLIC UTILITIES COMMISSION

Pennichuck Water Works, Inc.

Docket No. DW 19-084 Request for Change in Rates

&

Docket No. DW 20-055 Petition for Financing Approval

SETTLEMENT AGREEMENT

June 2020

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STATE OF NEW HAMPSHIRE

BEFORE THE

PUBLIC UTILITIES COMMISSION

Pennichuck Water Works, Inc.

Docket No. DW 19-084 Request for Change in Rates

&

Docket No. DW 20-055 Petition for Financing Approval

SETTLEMENT AGREEMENT

SUMMARY: This Settlement Agreement (Agreement) is entered into by and among Pennichuck Water Works, Inc. (PWW or Company), Staff of the New Hampshire Public Utilities Commission (Staff), the Office of the Consumer Advocate (OCA), and the City of Nashua (City) (together, Settling Parties), with the intent of establishing a modified ratemaking mechanism as requested by PWW's rate case filing (Docket No. DW 19-084) and supporting PWW's request for up to \$75 million in financing (Docket No. DW 20-055), as discussed below.

As part of its original rate filing, the Company proposed, among other modifications to its ratemaking structure, the addition of an annual Material Operating Expense Surcharge (MOES). The purpose of the MOES was twofold: (1) to ensure that the Company had sufficient earnings between general rate proceedings to cover its operating expenses; and (2) to stem the drastic

deterioration of its Material Operating Expense Revenue Requirement – Rate Stabilization Fund (MOERR-RSF)¹ as has been experienced by the Company since its last rate proceeding.

PWW proposed an annual MOES filing that would have reconciled its most recent total annual operating expenses with the operating expenses reflected in its current rates. The resulting difference would have resulted in either a surcharge or credit in customer bills, similar to the previously approved Qualified Capital Project Adjustment Charge (QCPAC).

During the course of the rate investigation, however, the other parties expressed hesitancy to support the Company's MOES request. Staff noted the possibility that the concept is prohibited as single-issue ratemaking, and that, in conjunction with the QCPAC process, constituted an annual rate proceeding, which contrasts with RSA 378:7 ("the commission shall be under no obligation to investigate any rate matter which it has investigated within a period of 2 years, but may do so within said period at its discretion"). The parties also expressed several other concerns: undue burden on ratepayers in the years they experience a surcharge, especially when combined with other possible surcharges; ratepayer confusion regarding price signals and associated consumption patterns, especially in years resulting in a customer credit; and the difficult logistics of administering an annual reconciliation of PWW's operating expenses. As a result, the Company abandoned the MOES concept.

In order to address PWW's continued cash flow and liquidity concerns, and successfully resolve the current rate proceeding, the Settling Parties have, instead, agreed upon an alternative two-pronged approach. First, seek approval of the Company's financing petition in DW 20-055 which, if approved, (1) will sufficiently replenish, on a one-time basis, PWW's depleted

¹ The MOERR-RSF is a reserve fund currently established at an imprest level of \$2,850,000 that provides cash coverage for PWW's material operating expenses between rate cases, enabling the Company to meet its obligations which allows for stable water rates. *Pennichuck Water Works, Inc.*, Order No. 26,070 (November 7, 2017) at 7-8.

MOERR-RSF, and (2) may result in the realization of a decrease in the Company's annual debt service obligations that will immediately reduce PWW's revenue requirement to be approved in Docket No. DW 19-084. Second, the Settling Parties have proposed a modification to PWW's current ratemaking structure to include an imbedded Material Operating Expense Factor (MOEF) within the existing Operating Expense Revenue Requirement (OERR)² component of the Company's overall revenue requirement.

The Settling Parties wish to make it clear that a Commission Order approving the Agreement, which includes modifications to PWW's revenue requirement calculation and other ratemaking adjustments proposed in Docket No. DW 19-084, <u>would not result in an immediate rate increase</u>. The Settling Parties, instead, request that, contingent upon 1) the approval of the requested financing in Docket No. DW 20-055, and 2) the ratemaking modifications proposed in Docket No. DW 19-084, the Commission issue a subsequent Order, after the approved financing is closed, which would set the final revenue requirement and resulting rates charged to customers.

The Settling Parties agree that the Commission's approval of PWW's proposed financing in Docket No. DW 20-055, and its subsequent approval of a proposed revenue requirement, as modified, coupled with other proposed measures designed to improve the Company's cash flow and liquidity in Docket No. DW 19-084, resolve all current issues in both dockets, and once the approvals are fully implemented, would result in just and reasonable rates.

² OERR includes both the MOERR and the NOERR components indicated in the flowchart schedules, Appendix 2, Attachment A.

I. PROCEDURAL HISTORY

A. Docket No. DW 19-084 (PWW) Request for Change in Rates

The Commission instituted Docket No. DW 19-084 on April 26, 2019 in response to PWW's motion requesting waiver of certain rate case filing requirements, per N.H. Admin. R., Puc 1604.01, in anticipation of its forthcoming rate case submission. On April 30, 2019 the OCA filed its letter of participation. On May 14, 2019, PWW filed a notice of intent to file rate schedules.

On July 1, 2019, PWW filed rate schedules and tariffs reflecting an effective date of August 1, 2019. The Company proposed an increase to its revenue requirement of \$3,778,139, or 11.91%, resulting in allowed revenues from base rates of \$35,510,803. In addition, PWW filed a petition requesting that the Commission approve further modifications to its revenue requirement methodology approved in its last rate proceeding, DW 16-806.

In support of its requests, the Company provided the pre-filed testimonies of Larry D. Goodhue, Chief Executive Officer of PWW, Donald L. Ware, Chief Operating Officer of PWW, and Gregg H. Therrien, Assistant Vice President of Concentric Energy Advisors, Inc., PWW's Cost of Service consultants. The Company also filed a Motion for Protective Order and Confidential Treatment of certain compensation and payroll information included in its rate filing. On July 16, 2019, PWW supplemented its rate filing with attachments to the pre-filed testimony of Gregg H. Therrien. On July 25, 2019, the City filed a petition to intervene. On August 21, 2019, PWW filed the supplemental testimony of Larry D. Goodhue on the subject of the bond rating process and the effect of PWW's bond rating on its ratemaking requests.

On July 31, 2019, the Commission issued Order No. 26,279 suspending the taking effect of PWW's tariffs for twelve months and scheduling a Prehearing Conference and technical

session for October 3, 2019. On August 21, 2019, PWW filed affidavits confirming that the suspension order had been published in area newspapers.

At the Prehearing Conference, the Commission granted the City's intervention request. During the technical session that followed, Staff and the parties developed a proposed procedural schedule to govern the course of the proceeding. The proposed procedural schedule was filed with the Commission by Staff on October 10, 2019, and the Commission approved it on October 16, 2019. Pursuant to that schedule, the Settling Parties conducted numerous rounds of discovery and held a number of technical sessions and settlement conferences.

On March 16, 2020, PWW filed a partially assented to motion for temporary rates, per RSA 378:27. In its petition, PWW requested that its current rates be set as temporary rates with an effective date coinciding with the date of its temporary rate filing. PWW sought to recoup the difference in its current rates and the final rates determined by the Commission back to March 16, 2020, per RSA 378:29.

On April 14, 2020, the Commission issued Order No. 26,348 suspending the taking effect of PWW's temporary rate tariffs, not to exceed the suspension period set by the permanent rate tariff suspension in Order No. 26,279. The Commission also scheduled a web-based hearing on temporary rates for May 13, 2020. The Commission further ordered that PWW send notice to all of its customers of the proposed temporary rates by no later than April 15, 2020 and to publish a copy of the Commission's order on the Company's website by no later than April 14, 2020. On April 16, 2020, PWW submitted an affidavit of its compliance with all notification requirements of Order No. 26,348.

On April 29, 2020, Staff, on behalf of the other parties in the proceeding, filed a letter requesting the Commission suspend the previously approved procedural schedule and approve a

technical session on May 6, 2020, where the parties would discuss a revised procedural schedule. Staff's letter further requested that the previously approved hearing dates of May 13, June 30, and July 1, 2020 be held open. On May 1, 2020, the Commission approved that request by Secretarial Letter.

On May 11, 2020, PWW filed a settlement agreement on temporary rates entered into by the Company, Staff, the City, and the OCA. In that settlement agreement, all of the settling parties agreed that PWW should be granted temporary rates at its current rate level for the pendency of the rate proceeding. Staff, PWW, and the City agreed that the effective date for temporary rates to take effect should be for service rendered on and after March 16, 2020, the filing date of the Company's temporary rate petition. The OCA, however, took the position that the effective date for temporary rates should be April 16, 2020 the date on which PWW's customers received notification of the temporary rate filing. The settling parties further agreed that the effective date for temporary rates was to be the only issue litigated at the temporary rate hearing.

During the May 13, 2020 hearing, the settlement agreement on temporary rates was presented for approval and the Commission heard arguments from the Company, the OCA, and Staff as to its effective date. On that same day, Staff filed a proposed amended procedural schedule, requesting two additional technical sessions and a hold on the hearing dates reserved for June 30 and July 1, 2020. The Commission approved the amended schedule on May 15, 2020. On June 2, 2020, Staff filed a final procedural schedule to govern the remaining course of the proceeding that was approved by the Commission on June 11, 2020.

B. Docket No. DW 20-055 (PWW) Petition for \$75 Million in Financing

On April 23, 2020, PWW filed a petition requesting approval and authority, under RSA 369:1-4, to issue up to \$75 million in an aggregate principal amount of tax-exempt or taxable bonds. As a result, the Commission instituted Docket No. DW 20-055.

On April 28, 2020, the OCA filed its letter of participation. On May 19, 2020, PWW filed an amended financing petition for the purpose of correcting two minor errors contained in its original petition. On June 1, 2020, the Commission issued an Order of Notice scheduling a web-based hearing regarding PWW's financing request on June 30, 2020. PWW was further ordered to publish a copy of the order of notice on its website by June 2, 2020.

II. HISTORY OF PWW'S RATEMAKING STRUCTURE, PRIOR COMMISSION DETERMINATIONS, AND CURRENT CONSIDERATIONS

Since approval by the Commission of the City's acquisition of PWW's parent company, Pennichuck Corporation, the Company's financial structure and, thereby, its ratemaking structure has undergone a unique process of change, as characterized in the numerous Commissionapproved financings and general rate increases since that acquisition. The following section highlights those changes in PWW's financial and ratemaking structures as well as the continuing challenges the Company has encountered since its last rate proceeding. Further, the Settling Parties have provided flowcharts depicting PWW's previously approved ratemaking structure along with the further modifications proposed in this Agreement in Appendix 2, Attachment A to this document.

A. <u>Docket Nos. DW 11-026 and DW 13-130</u>

In Order No. 25,292 (November 23, 2011), in Docket No. DW 11-026, the Commission approved the acquisition of PWW's parent company, Pennichuck Corporation, by the City. That acquisition was completed on January 25, 2012, whereby Pennichuck Corporation ceased to be a

publicly traded company. The City became its sole shareholder with a "limitation on Nashua's ability to draw dividends or other distributions from Pennichuck Corporation" (at page 45). With that limitation in place, there is no ability to sell stock. The consequences of such are that Pennichuck Corporation and its affiliates no longer have access to the equity markets for financing and are required to utilize debt, only.

As part of the acquisition, the Commission approved a modified ratemaking structure for PWW and its two affiliates, Pennichuck East Utility, Inc. (PEU) and Pittsfield Aqueduct Company, Inc. (PAC). That modification enabled those regulated utilities to earn a reasonable return on invested assets through a ratemaking methodology that still produced just and reasonable customer rates, as required under *FPC v. Hope Natural Gas*, 320 U.S. 591, 602-603 (1944). The rate structure approved also included a \$5 million Rate Stabilization Fund (RSF) designed to provide assurance to creditors that PWW and its affiliates would meet the repayment requirements relative to the City's acquisition bond. *See Joint Petition of Nashua, Pennichuck Corporation, et al*, Order No. 25,292 at 30 (November 23, 2011) ("the fund is intended to provide holders of the City Acquisition Bonds with reasonable assurances of the available cash to be used to pay debt service on the City Acquisition Bonds, similar to a debt service reserve fund, and will hence facilitate Nashua's ability to borrow funds at reasonable interest rates, which will directly benefit customers in the form of a lower cost of capital").

The rate structure initially approved by the Commission was further clarified in PWW's first, post-acquisition, general rate proceeding, Docket No. DW 13-130, in Order No. 25,693 (July 15, 2014).

B. <u>Docket Nos. DW 14-130 and DW 15-196</u>

The modified ratemaking structure departed from the traditional rate-setting formula applicable to typical investor-owned utilities, which, unlike PWW, have access to equity markets for their financing needs. By contrast, post-acquisition, PWW and its affiliates were required to utilize only debt in order to meet their financing needs.

As such, it became necessary for PWW to restructure the nature of its debt financing. Pre-acquisition, the repayment terms, loan covenants, and coverage requirements associated with much of PWW's debt was characteristic of a traditional investor-owned utility, including interest only payments and balloon maturities. Post-acquisition, however, PWW's capital structure was more akin to that of a municipality, consisting of all debt. Thus, PWW restructured the repayment terms for much its existing debt to that of fully amortizing loans. PWW also renegotiated its loan covenants and coverage requirements based on terms consistent with its new debt-only capital structure. This restructuring of PWW's debt occurred though a series of Commission financing orders commencing with Order No. 25,734 (November 7, 2014) in Docket No. DW 14-130 (approval of PWW's Integrated Capital Finance Plan totaling \$54.5 million), and Order No. 25,808 (September 2, 2015) in Docket No. DW 15-196 (approval of \$25.5 million in tax-exempt bonds issued through the New Hampshire Business Finance Authority (NHBFA)).

C. <u>Docket No. DW 16-806</u>

To satisfy the renegotiated bank/lender coverage requirements associated with its refinanced debt and to continually attract necessary new debt under favorable loan terms for its on-going capital needs, PWW became increasingly reliant and focused on the cash flow generated from its customer rates as the key to its long-term viability. As a consequence, in

PWW's last rate proceeding, Docket No. DW 16-806, the Commission approved further modifications to PWW's already unique ratemaking structure in Order No. 26,070 (November 7, 2017).

Consequently, PWW's ratemaking structure became one exclusively intended to meet its overall cash flow needs in order to give its creditors assurance that it was both solvent and sufficiently liquid. Specifically, the Company's ratemaking structure was designed to recover the aggregate of PWW's: (1) promissory note to the City relative to its portion of the repayment on the acquisition debt (City Bond Fixed Revenue Requirement (CBFRR)), (2) utility operating expenses (Operating Expense Revenue Requirement (OERR)), and (3) debt service (Debt Service Revenue Requirement (DSRR)). See Appendix 2, Attachment A.

Further, the Commission approved the Company's annual QCPAC. Under this mechanism, the Company submits an annual QCPAC filing for approval to recover the additional revenues necessary to pay the debt service and property taxes associated with its prior year's capital expenditures. As such, the QCPAC enables the Company to sustain the cash flows necessary between general rate proceedings in order to maintain its capital expenditure program.

The Commission also approved a re-allocation of the \$5 million RSF that was originally established in Docket No. DW 11-026. Initially, \$1.08 million of the original RSF was allocated to PEU and PAC (\$980,000 of which was subsequently allocated to PEU in its next completed rate case in Docket No. DW 17-128) to assist those utilities in meeting their cash needs.

The remaining \$3.92 million of the original RSF retained by PWW, was then apportioned amongst three reserve funds to provide additional coverage for the specific cash flow needs of the Company as established in its modified revenue requirement, as follows: (1) CBFRR-RSF (PWW's obligation relative to the City's acquisition bond) – \$680,000; (2) MOERR-RSF

(PWW's material operating expenses) – \$2,850,000; and (3) DSRR-1.0-RSF (PWW's debt service requirements) – \$390,000. The re-apportionment of PWW's RSF funds was specifically designed to provide stability to customer rates even under adverse conditions, as it could draw on those funds to meet its cash obligations under such conditions.

Overall, however, the ratemaking modifications approved in Docket No. DW 16-806, were designed to provide: 1) stability to customer rates, 2) assurance to creditors of PWW's ability to effectively meet its cash obligations, 3) sufficient cash-flow coverage for PWW's operating needs, and 4) enhancement to PWW's credit rating. All of which were anticipated to increase the Company's ability to access the credit markets and obtain lower-cost debt financing.

D. <u>Current Challenges</u>

Despite the approved modifications in DW 16-806, and as illustrated in PWW's rate case schedules and further discussed in the pre-filed testimony of Donald L. Ware, PWW's operating expenses have increased at a rate greater than the rate of inflation for each of the past three years (Bates 68). As a result, PWW's expenses have fully depleted its MOERR-RSF. As of December 31, 2019, PWW's MOERR-RSF reflected a deficit of about \$2.8 million, funded through borrowings from Pennichuck Corporation's working capital line-of-credit.

The depletion experienced by PWW in its MOERR-RSF since its DW 16-806 rate proceeding has exposed a deficiency in PWW's current ratemaking structure. That being, the current structure does not enable PWW to maintain sufficient cash coverage in order to meet the inevitable increases in its material operating expenses between rate cases.

Further, as described throughout the pre-filed and supplemental testimonies of Larry D. Goodhue in this proceeding, adequate cash coverage remains a concern of PWW's bond rating agency, Standard & Poors (S&P) and has adversely impacted the Company's credit rating. As a

consequence of the recognized deficiency in PWW's current rate structure and the resulting deterioration of its cash reserves, in March 2019, S&P slightly lowered the Company's bond rating from "A+" with a "stable outlook" to "A+" with a "negative outlook". Subsequently, however, in April 2020, due to a continuation of the decline in PWW's cash reserves, S&P further downgraded PWW's bond rating from "A+" to "A" with, still, a "negative outlook".

As a result, there is presently a concern that, if the Company's credit rating continues to decline, this would seriously impair PWW's ability to 1) access the debt markets for needed capital financing, and 2) attract the lowest cost of borrowings possible. If such were to occur, PWW's water rates charged to customers would also be adversely impacted.

III. SETTLEMENT AGREEMENT - DOCKET NO. DW 20-055 DEBT RESTRUCTURING

The Settling Parties agree and recommend the Commission approve PWW's request for financing in an amount up to \$75 million through the issuance of taxable bonds.³ The Settling Parties agree that the four purposes of the proposed financing (see Section A), meet the requirements of RSA 369:1-4. The Settling Parties also agree that the proposed terms of the proposed financing (see Section B) are reasonable, in accordance with RSA 369:1-4. The Settling Parties further agree that the requested financing is in the public good (see Section C), pursuant to RSA 369:1-4, and, subject to the receipt of further documentation (see Section D), should be approved by the Commission (see Section E) as the end result provides the Company with further financial stability, allowing it to continue to provide safe and adequate drinking water to its customers at reasonable rates.

³ The initial filing indicated that the financing would consist of the issuance of taxable and/or non-taxable bonds. At the time of settlement, however, PWW determined that the issuance of non-taxable bonds was not an option available to the Company. See the Company's response to Staff 1-2 in DW 20-055 and the Company's First Amended Petition, request (b) at page 7.

A. <u>Four Purposes of the Requested Financing</u>

1. <u>Replenishment of MOERR-RSF</u>

The need to fully replenish PWW's MOERR-RSF fund at this time is based on the Company's financial structure as a debt-only funded entity. Cash flow coverage is paramount in order for PWW to remain a financially viable entity. Further, the Company's ability to maintain adequate cash coverage ultimately benefits ratepayers by enabling PWW to (1) access the debt markets to obtain the financing it needs, and (2) attract the lowest cost of borrowings possible.

PWW's overall ability to maintain proper liquidity, in both its operating cash accounts and its RSF funds, and its ability to refill and maintain those funds, is the highest risk factor that the Company currently faces as exemplified by the recent small downward adjustment in its credit rating. Although the Company's actual credit rating going forward is difficult to predict mainly due to factors relative to the economy as a whole, the Settling Parties agree that the combined effect of replenishing the MOERR-RSF with proposed modifications to PWW's overall rate structure, subsequently described in this Agreement, should have a positive impact on the credit rating agency's view of PWW.

Therefore, PWW currently estimates that approximately \$5.5 million of the total proceeds from the proposed financing will be required in order to achieve full replenishment of its MOERR-RSF to its authorized imprest level of \$2,850,000 and to repay amounts borrowed on Pennichuck Corporation's working capital line-of-credit used to finance the deficit in that fund, as detailed in Appendix 2, Attachment B. This is intended to be a one-time replenishment of the MOERR-RSF in this manner, as the current deficit is viewed as the result of the previously described deficiency in the Company's ratemaking structure. With proposed modifications to PWW's rate structure, it is anticipated that future reconciliations of the MOERR-RSF will be

achieved via either charge or credit adjustments to PWW's revenue requirements in subsequent rate proceedings, as further described in this Agreement.

The final amount of the bond financing designated to replenish the MOERR-RSF and repay the amounts borrowed on the Pennichuck Corporation line-of-credit will be determined at the actual time of the bond issuance. If the total line-of-credit to be repaid is less than estimated, as of the date of repayment and closing of this refinancing, then the resulting bond issuance will decrease by an equivalent amount.

2. 2014A, 2015A, and 2015B Bond Refinancings

The largest portion of the overall financing request relates to the refinancing of a combined principal amount of \$56,650,000 of PWW's currently outstanding Series 2014A tax-exempt bonds (remaining outstanding principal balance of \$36,695,000), Series 2015A tax-exempt bonds (outstanding remaining principal balance of \$18,330,000) and Series 2015B taxable bonds (outstanding remaining principal balance of \$1,625,000). The refinancing is anticipated to allow the Company to reduce the cost of this existing debt with lower interest bonds as well as to extend the term to maturity of the debt, resulting in a direct benefit to existing customers.

Specifically, PWW anticipates that it would refinance these debt obligations with taxable bonds at more favorable interest rates currently estimated to be approximately 3.67% as opposed to the current interest rate on the debt of 4.271%. The repayment term of the new bonds of 35 years will effectively extend the amortization period of the refinanced debt to 41 and 40 years, respectively, for the 2014 and 2015, enabling that debt to be more closely aligned with the useful lives of their associated financed assets, thereby mitigating issues related to generational inequity. Combined, the anticipated lower interest rate and extended term on the bonds would

lower the Company's annual Debt Service Revenue Requirement (DSRR) component of its overall revenue requirement. The precise redemption value of the bonds, however, will not be realized until the date of closing. PWW will not be issuing the bonds, if the annual debt service for the new bonds yields no savings on annual debt service as compared to current debt service for the refinanced debt obligations.

Based upon the current requirements relative to refinancing these obligations, the 2014A and 2015A/B bonds are subject to early refunding/redemption provisions if that occurs prior to their future "call dates" in 2024 and 2025. Pursuant to those requirements, the Company must provide an escrow deposit that is calculated as of the date of the pricing of the new bonds. That escrow deposit then is to be invested in US Treasury Instruments (State and Local Government Series debt securities). The currently estimated amount of the required escrow is \$6,973,050. However, the estimated interest savings to be realized on the refinanced debt is anticipated to exceed the present value of the required escrow deposit by the third year of the serialized offering.⁴

Based on the above, the combined principal and escrow requirements related to the refinancing of the 2014A and 2015 A/B bonds is currently estimated to be \$63,623,050 (\$56,650,000 + \$6,973,050). The exact dollar amount, however, will not be fully realized until the date of pricing for this transaction.

3. <u>American United Life Insurance (AULI) Loan Refinancing</u>

The proposed financing would also enable PWW to refinance a further outstanding loan relative to the \$2.4 million remaining principal amount on PWW's note payable to AULI, which matures and is due in full on March 1, 2021. That loan was originally taken out in 1996, to fund

⁴ See the pre-filed direct testimony of Larry D. Goodhue in DW 20-055, Bates 37.

capital projects at the time, in the amount of \$8 million over 25 years, at an interest rate of 7.4% with annual sinking fund payments of \$400,000. It is necessary for PWW to refinance the remaining \$2.4 million due on this loan prior to its maturity because the Company's current revenue structure does not enable it to possess the necessary "cash on hand" to pay the entire amount due on that date. However, the AULI debt instrument also has a "make whole" provision if it is repaid prior to the March 1, 2021 due date. That requirement is currently estimated to be approximately \$74,141 if the loan is paid on August 1, 2020, but will decrease subsequent to that date.⁵ The precise amount of the "make whole" payoff will not be determined until the date of closing as its precise determination is based upon the number of days remaining until loan maturity as well as the US Treasuries rate upon which the "make whole" provision is calculated.

With the present inclusion of the refinancing of this loan within the proposed overall financing, it is anticipated that PWW's ratepayers will benefit from a further reduction in the Company's debt service in that the currently estimated interest rate of the proposed financing of 3.67% is less than half the interest rate of the existing loan of 7.40%. This is particularly beneficial, as refinancing the \$2.4 million amount due on its own in early 2021 would not inure the same benefits as incorporating it into the overall proposed \$75 million financing, as that amount on its own is too small to take to the bond markets, and would be at much higher interest rates with onerous covenants and requirements, if refinanced with a term loan at a commercial bank or the existing AULI lender.

⁵ If the AULI loan is repaid on October 1, 2020, the required "make whole" provision amounts to approximately \$53,000.

4. <u>Debt Issuance Costs</u>

The fourth and final element of the proposed financing is to fund the overall cost of issuance for the bonds, which is currently estimated to be approximately \$1.3 million. Thus, the currently anticipated total value of the financing is approximately \$72.9 million⁶, inclusive of the estimated issuance costs. However, due to the unpredictable nature of the bond markets, PWW requests authority to issue up to \$75 million in taxable bonds. This is to ensure that even in the event where the bonds are issued at a discount, the Company will 1) receive the actual cash it requires from this transaction for the purposes intended, and 2) be provided with the financial flexibility it needs in order to facilitate a bond closing under that scenario.

B. Bond Mechanism and Specific Terms

The financing will be accomplished by issuing either (1) serialized bond offerings (a series of bonds with different terms to maturity), (2) one or more term bonds with annual sinking fund payments, or (3) a combination thereof. However issued, the financing will consist of taxable bonds with a fixed interest rate applicable to each instrument. The term of the bonds, in the aggregate, will be 35 years.⁷ Repayment of the bonds will be unsecured, as per the existing Bond Indenture and consistent with the Company's prior bond issuances since 2014.

Based upon market conditions existing as of the date of this Agreement, PWW has estimated that bonds, with terms and conditions similar with the Company's previously issued 2014-2020 bonds, would be issued at an estimated interest rate of between 3.50% and 4.50%

⁶ This amount consists of the current sum of 1) MOERR-RSF replenishment - \$5,500,000, 2) 2014 A and 2015 A/B bond refinancing with escrow requirement - \$63,623,050, 3) AULI Loan refinancing with "make whole" requirement - \$2,474,141, and 4) Debt Issuance Costs - \$1,292,809. The total amount equals \$72,890,000.

⁷ The issuance, comprised of serial bonds and/or term bonds, would be paid off in their entirety in 35 years. The bond portfolio will be constructed such that in aggregate it will have an overall 35-year term and a level or declining annual debt service requirement over the course of the 35 years.

percent per annum, with a goal of an overall average total interest cost of approximately 3.67%, subject to PWW's credit rating and overall market conditions at the time of issuance.

As part of the bonding process, PWW will be updating its credit rating with S&P. That review by S&P must be conducted contemporaneously with the issuance of the bonds and cannot be completed prior to that timeframe. This is an essential step in the process of issuing these financial instruments and is highly impactful upon the Company's ability to issue the bonds and secure a favorable cost of interest on the bonds.

As such, PWW may see a reduction in the estimated interest rate should it receive a credit rating enhancement based on: (1) the financing transaction's ability to sufficiently improve the Company's liquidity; and (2) the Company's perceived ability to maintain that liquidity through the establishment of a Material Operating Expense Factor ("MOEF") as well as other rate structure modifications proposed as part of the DW 19-084 rate case settlement, if approved by the Commission. Conversely, the impact of COVID-19, as well as impacts to the crude oil market and the possibility of a recession in the U.S. Economy, and other factors relative to the overall taxable bond market, may result in an increase in the bond interest rate.

Attached to this Agreement as Appendix 1, Attachment A is a proforma financial net debt service cash flow projection calculated for each year of the total 35-year term of the proposed financing, or through the year 2055. The importance of this attachment is in the fact that it includes the net estimated debt service impact from this transaction, as compared to the existing debt service on the debt instruments to be refinanced, as well as the issuance of the \$5.5 million of "new money" for the replenishment of the MOERR-RSF fund.

Among other assumptions, Page 1 of this model assumes that the bonds will be issued at an overall total interest cost of 3.67% resulting in year one net debt service (principal and

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interest) savings of \$970,374. Page 2 differs in that it assumes the bonds will be issued at an overall total interest cost of 4.67% resulting in year one debt service net savings of \$490,585.⁸ Both scenarios further provide the calculated net debt service savings to be realized for each year leading up to the original maturity dates of the refinanced 2014A and 2015 A/B bonds culminating in 2036. It should be noted that while the calculations under each scenario extend beyond the original terms of the 2014A and 2015 A/B bonds, the indicated results during those years do not necessarily translate into an adverse change in rates to customers beginning in 2037.⁹

Because the Company's Debt Service Revenue Requirement (DSRR) component of its rate structure is tied to cash coverage for the principal and interest payments on PWW's debt obligations, and as such, maintaining or reducing the annual cash needs for those payments going forward is beneficial to the Company and, ultimately, its customers. In essence, this financing, as a subset of PWW's full DSRR portion of allowed revenues in future years, represents a more equitable distribution of debt over the useful life of capital assets and a stabilization of the DSRR portion of the Company's overall revenue requirement.

As the issuance of bonds is a true "market based" and negotiated activity, based upon supply versus demand for the bonds as of the date of issuance, the actual financing structure, i.e., rates, terms and conditions, amount, redemption provisions and coupon rate of the bonds, will be ultimately determined at the time of issuance based upon the prevailing market conditions and

⁸ The calculated year one debt service savings under both scenarios have been incorporated into the calculations of PWW's estimated and maximum revenue requirements, respectively, illustrated in Appendix 2, Attachment C and discussed later in this Agreement with regard to the proposed settlement in DW 19-084.

⁹ The calculated negative amounts for the years 2037 through 2055, appearing under the respective scenarios in Appendix 1, Attachment A, are merely the result of the fact that there are no anticipated debt service payments related to the existing 2014A and 2015 A/B bonds subsequent to 2036.

PWW's credit rating at the time of bond issuance. The terms of this Agreement, if approved by the Commission, place conditions and parameters around the proposed bond offering.

The bonds would be issued and sold by the New Hampshire Business Finance Authority (NHBFA), subject to approval by the NHBFA, and the Governor and the Executive Council (G&C). It is further anticipated that the bonds will be issued by the NHBFA as one or more series under the 2014 Loan and Trust Agreement that was agreed to and entered into by the NHBFA, PWW, and the Trustee, and under which the Company has previously issued bond offerings. PWW intends to issue this new debt with the covenants set forth in that agreement, which were implemented to be best aligned with the Company's current capital structure as well as its current and existing modified rate structure approved by the Commission in DW 16-806.

All payments of principal and interest on these bonds would be limited obligations of the NHBFA and would be payable solely from payments made by PWW. These bonds would not be general obligations of the State of New Hampshire, and neither the general credit nor the taxing power of the State of New Hampshire or any subdivision thereof, including the NHBFA, would secure the payment of any obligation under the bonds.

C. <u>Public Good</u>

The Settling Parties agree and recommend the Commission find that the proposed bond financing is in the public good for the following reasons:

1. <u>Corresponds with PWW's Modified Rate Structure</u>

The proposed financing will be issued with repayment terms and financial covenants that are aligned with the capital requirements of PWW as it is characterized under ownership by the City, and further supported by the ratemaking structure approved in DW 16-806 as well as the proposed modifications to that structure in PWW's instant rate proceeding, DW 19-084;

2. <u>Reduction in PWW's Debt Service</u>

The proposed financing is anticipated to refinance certain existing long-term debt at more favorable interest rates and at maturities that are better aligned with the useful lives of the originally funded capital assets. This is anticipated to benefit the Company's ratepayers both immediately and in the long-term;

3. Improvement in PWW's Capitalization

The proposed financing will generally improve the overall capitalization of PWW reflected in approved future revenue requirements, and more specifically DSRR components, which would be positively impacted during the years through the full maturity of the refinanced and re-termed bonds, based on reasonable projections;

4. <u>Savings to PWW's Customers</u>

The proposed financing will result in savings to PWW's customers by reducing the principal and interest payments on the financial instruments that are being refinanced, as well as through the estimated impact on the cost of money for future debt issuances, and further provides a more equitable distribution of debt over the life of capital assets; and

5. <u>Improvement in PWW's Liquidity and Cash Flow</u>

The proposed financing would fully replenish the Company's RSF funds on a "one-time" basis. Those funds are used to backstop PWW's allowed revenue structure, operating expenses, and overall liquidity position both immediately and in the long-term. This ultimately benefits PWW's customers, as it enables the Company to adequately fund its capital projects and operations at favorable interest rates, will provide PWW with full access to the debt markets.

6. <u>Projected Impact on PWW's Average Residential Customers</u>

The proposed financing is currently projected to result in a savings of \$1.73 per month, or \$20.76 annually, in the billings of PWW's current average residential customers. This is based on an estimated total interest cost of 3.67% and pertains to residential customers using 7.77 ccf of water per month. This projection is conditional, however, on the actual terms and conditions obtained by PWW for the bond financing when it concludes this transaction later this year.

D. <u>Status of Required Approvals and Consents</u>

In order to consummate the transactions contemplated by the proposed financings, the following approvals and consents are required:

- The requested approvals and findings of this Commission as required by RSA Chapter 369;
- (2) Approval by the NHBFA and the G&C to issue taxable bonds through the NHBFA;
- (3) Authorization of PWW's Board of Directors;
- (4) Authorization by Pennichuck Corporation's Board of Directors; and
- (5) Approval by the City of Nashua, in its capacity as Pennichuck Corporation's sole shareholder.

The respective Boards of Directors of PWW and Pennichuck Corporation have previously provided preliminary approval for the proposed financing and have authorized PWW's management to pursue all steps necessary to complete that transaction. Copies of those approval actions are attached to this Agreement under Appendix 1 as Attachments B and C. PWW's Board of Directors will also approve the final structure and terms of the proposed financing and the Bond Purchase Agreement, pursuant to which the proposed bonds will be issued.

PWW filed a request for approval with the City of Nashua. It is anticipated that the City's approval will be granted on June 23, 2020. As such, the Settling Parties agree that PWW will file documentation with the Commission of the City of Nashua's approval of the financing prior to the issuance of the Commission's order approving the proposed financing.

PWW submitted an application to obtain preliminary approval by the NHBFA Board of Directors to issue taxable and/or tax-exempt bonds on behalf of PWW. The NHBFA approved PWW's application on May 18, 2020. A copy of that approval is attached to this Agreement under Appendix 1 as Attachment D. The NHBFA has not actually reserved any portion of its bonding limit at this time, as it awaits approval by this Commission of PWW's financing request in the instant proceeding. At such time, the NHBFA will make a firm commitment to purchase/issue the bonds through its agency. PWW anticipates that the NHBFA Board of Directors will take final approval action with respect to the proposed financing plan as part of the overall bond approval process. As such, the Settling Parties agree that PWW will file documentation with the Commission of the NHBFA's subsequent approval action as soon as it becomes available.

It is anticipated that the G&C will consider approval of PWW's proposed financing on June 24, 2020. As such, the Settling Parties agree and recommend the Commission approve that PWW will file documentation with the Commission of the G&C's approval of the proposed financing prior to the issuance of the Commission's order approving the proposed financing.

E. <u>Estimated Timeline of Bonding Process and Requested Issuance Date for</u> <u>Commission Order Approving Proposed Financing</u>

The Settling Parties agree that PWW should take all steps necessary to close on the proposed financing and issue the taxable bonds by as soon as September 1, 2020 but by no later than early to mid-October, 2020. Resolution of the total debt service from this financing is

instrumental to the proposed MOEF in PWW's DW 19-084 rate proceeding, discussed subsequently in this Agreement, and whether the MOEF will be able to fully support or replenish the MOERR-RSF on a going-forward basis. Additionally, PWW and its investment bankers consider it to be extremely important that this bond issuance be completed prior to the 2020 Presidential Election, as the impact of the results of that election upon the financial markets in the U.S. would most likely add another layer of uncertainty with regard to the overall cost of and ability to issue these bonds, during or after the election.

PWW estimates that it would take from 5-8 weeks to complete the entire process of documenting, processing, marketing, and closing on a bond issuance to the markets. The Company anticipates that process would not commence until after the Commission issues an order approving the proposed financing.

For the reasons previously described, including the desire to consummate the transactions as soon as possible, and in light of the timing for which this process is directly impactful on the concurrent rate proceeding in DW 19-084, which includes the requested approval of the MOEF along with other rate structure modifications, the Settling Parties agree and respectfully request that the Commission issue an order approving the proposed bond financing in the instant docket by no later than July 24, 2020.

IV. SETTLEMENT AGREEMENT - DOCKET NO. DW 19-084 RATE PROCEEDING

A. <u>Revenue Requirement</u>

1. <u>Modifications to Structure of PWW's Revenue Requirement</u>

The Settling Parties agree and recommend the Commission approve two modifications relative to the formulation of PWW's revenue requirement last approved in DW 16-806. The first, a Material Operating Expense Factor, or MOEF, is intended to be a permanent component

of PWW's ratemaking structure. The second, a reduction in PWW's revenue requirement relative to anticipated debt service savings resulting from the Company's DW 20-055 bond financing, is intended to be a one-time adjustment applicable only to the approved revenue requirement in the instant rate proceeding.

a. Material Operating Expense Factor (MOEF)

The Settling Parties agree and recommend the Commission approve the establishment of a MOEF. The Settling Parties further recommend that the MOEF should become a permanent component of the revenue requirement structure utilized by PWW in the calculation of its permanent rates in this and subsequent rate proceedings.

The Settling Parties agree that the MOEF would work in similar manner to the Debt Service Revenue Requirement-0.1 (DSRR-0.1) established in DW 16-806 that provides a 10% over-cover for PWW's annual debt service obligations in order to satisfy debt lending requirements. In similar fashion, the MOEF would be a percentage factor applied to PWW's Material Operating Expense Revenue Requirement (MOERR) as established in each rate proceeding.¹⁰ The result of which would be included in the Operating Expense Revenue Requirement (OERR) component of PWW's overall revenue requirement. Unlike the DSRR-0.1 revenue component, however, which remains fixed during each succeeding rate proceeding, the MOEF would be an adjustable factor, the sufficiency of which would be re-evaluated and revised, as necessary, in succeeding rate cases.

¹⁰ The approved DW 16-806 Settlement Agreement, Commission Order No. 26,070 (November 7, 2017), at 12 defines the Material Operating Expense Revenue Requirement (MOERR) component as that consisting of all of the operating expenses included in PWW's overall Operating Expense Revenue Requirement (OERR) with the exception of those expenses specified as Non-Material Operating Expense Revenue Requirement (NOERR) items.

The intended purpose of the MOEF is to sufficiently enhance the MOERR portion of PWW's allowed revenues to better enable adequate cash flow coverage between rate cases for increases in material operating expenses experienced by the Company. The MOEF would be specifically established so as to enable PWW to adequately maintain the MOERR-RSF at its established imprest level. Thus, in each rate proceeding, the MOEF would be re-established in conjunction with the MOERR-RSF. It is anticipated that doing so would enable the MOERR-RSF to become a more effective buffer against unanticipated revenue fluctuations due to weather as well as the impact of regulatory lag experienced by the Company, which, for PWW, is exacerbated by the fact that it is a debt-only financed utility.

For purposes of the instant rate proceeding, the Settling Parties agree and recommend the Commission approve a MOEF not to exceed 9.50%. The Settling Parties agree that such would enable PWW to adequately maintain the MOERR-RSF at the recommended imprest level of \$2,850,000¹¹ through the Company's next rate proceeding, which is currently anticipated to be finalized in 2023. The financial model in support of the adequacy of the recommended 9.50% MOEF is attached to this Agreement as Appendix 2, Attachment B.

The Settling Parties recognize that the MOEF will increase the revenues of the Company. However, ratepayers are protected from this additional revenue requirement, because, as noted in Section II, A of this Agreement, the order approving the settlement agreement in DW 11-026 places limitations on the dividends paid by PWW to its sole shareholder. The Settling Parties agree that these limitations are an underlying principle to this and previous ratemaking structure

¹¹ The Commission previously approved an imprest level for the MOERR-RSF in Order No. 26,070 in Docket No. DW 16-806. In this Agreement, the Settling Parties are recommending the MOERR-RSF remain at that level.

changes and agree that once the City Bond has been paid in full and the CBFRR is reduced to zero, that the dividend payments by PWW will effectively be reduced to zero.

b. Anticipated Cash Flow Savings from DW 20-055 Financing

As previously discussed, the Settling Parties anticipate significant cash flow savings with regard to PWW's debt service requirements to result from the proposed bond financing in DW 20-055. As such, the Settling Parties agree and recommend the Commission approve that any net savings realized from the DW 20-055 bond issuance shall be incorporated into the calculation of the final permanent revenue requirement to be approved in this rate proceeding. The Settling Parties further agree that this is a one-time adjustment to PWW's revenue requirement structure, anticipated to only be applicable within the instant rate proceeding. It is currently anticipated that the bond closing and associated realization of these debt service savings will occur during September 2020.

2. <u>Estimated Revenue Requirement</u>

Based on the proposed modifications to PWW's revenue requirement structure described above, the Settling Parties have provided an estimated calculation of the Company's revenue requirement. See Appendix 2, Attachment C, Summary (middle column). The estimated calculation is based on a scenario whereby the proposed bonds contemplated in DW 20-055 are issued at an all-in total interest cost of 3.67%, which would result in year-one net annual debt service savings of \$970,374¹² (line 17), which after applying the 1.1x debt service factor (line 18), would result in a realized reduction in PWW's revenue requirement of \$1,067,411 (line 19). That would also enable the Company to fully implement the proposed MOEF at the full 9.50%

¹² See Appendix 1, Attachment A, Page 1.

(line 10) proposed by the Settling Parties, resulting in an increase in the OERR component of PWW's revenue requirement by \$1,799,471 (line 10).

Upon implementation of these modifications, the CBFRR would be \$7,729,032 (line 1), the OERR would be \$21,296,617 (line 12), and the unadjusted DSRR of \$7,702,894 (line 15) combined with the estimated savings from DW 20-055 of \$1,067,411 (line 19) would result in an adjusted DSRR of \$6,635,482 (\$7,702,894 - \$1,067,411). Combined, the Settling Parties calculate an estimated total revenue requirement for PWW of \$35,661,131 (line 21), of which, after eliminating pro forma other operating revenues of \$420,712 (line 22), would result in \$35,240,419 (line 23) in revenues to be derived from base rates. This represents a base rate revenue increase of \$3,591,103, or 11.35% (line 25).

However, since the Company's pro forma test year includes pro forma QCPAC revenues granted in DW 18-022 and DW 19-029¹³ amounting to \$1,248,097 (line 26), which, per the parameters of the QCPAC mechanism approved in DW 16-806, are subsumed into the proposed base rate revenues of \$35,240,419, the actual increase in billed water revenues to be realized from customers, based on DW 19-084 and DW 20-055, is \$2,343,006, or 7.40% (line 27).

3. <u>Maximum Revenue Requirement</u>

The Settling Parties agree and recommend the Commission approve a proposed maximum revenue requirement for the Company that shall not exceed the percentage increase in water revenues from base rates proposed in PWW's original rate filing of 11.91%. The calculation of which is contained in Appendix 2, Attachment C, Summary (right column). As such, the Settling Parties agree and recommend the Commission approve a total revenue

¹³ See, *Pennichuck Water Works, Inc.*, Docket No. DW 18-022, Order No. 26,183 (October 29, 2018); and *Pennichuck Water Works, Inc.*, Docket No. DW 19-029, Order No. 26,247 (May 3, 2019).

requirement for PWW not to exceed \$35,839,461 (line 21), and a maximum amount of water revenues to be derived from base rates of \$35,418,749 (line 23).

This calculation is based on a scenario whereby the proposed bonds contemplated in DW 20-055 are issued at an all-in total interest cost of 4.67%, which would result in year-one net annual debt service savings of \$490,585¹⁴ (line 17), which after applying the 1.1x debt service factor (line 18) would result in a reduction of \$539,644 (line 19) in PWW's unadjusted DSRR from \$7,702,894 (line 15) to an adjusted DSRR of \$7,163,250 (\$7,702,894 - \$539,644). In order not to exceed the stipulated maximum revenue requirement, the Company would apply a MOEF of only 7.66% (line 10), rather than 9.50% as previously stipulated, thereby increasing the OERR component of PWW's revenue requirement by \$1,450,033 (line 11) to \$20,947,179 (line 12). With the addition of the CBFRR of \$7,729,032 (line 1), the combined elements result in the proposed maximum revenue requirement of \$35,839,461 (line 20).

The resulting maximum increase in base rate revenues would be \$3,769,433, or 11.91% (line 25). However, after taking into account the fact that PWW's pro forma test year includes QCPAC revenues of \$1,248,097 (line 26), as explained previously, the increase in total annual billed water revenues realized from customers, based on DW 19-084 and DW 20-055, is estimated to be \$2,521,336, or 7.97% (line 27).

4. <u>Summary of Requested Commission Approvals in DW 19-084</u>

In addition to the Commission order previously requested in this Agreement for approval of the proposed bond financing in DW 20-055, the Settling Parties agree and recommend the Commission issue two further orders relative to the DW 19-084 rate proceeding, as follows:

¹⁴ See Appendix 1, Attachment A, Page 2.

a. Initial Order Approving Proposed Modifications to PWW's Ratemaking Structure

The Settling Parties agree and recommend that the Commission issue an initial order approving the structural modifications to PWW's ratemaking mechanism including the MOEF and the application of anticipated debt service savings from DW 20-055 discussed previously, as well as the other proposed modifications to PWW's overall ratemaking structure that will be subsequently discussed. The Settling Parties agree that an order issued as soon as possible approving these proposed rate structure modifications will be important to the bond issuance process in DW 20-055 so as to provide the bond rating agency and potential creditors assurance that PWW is instituting measures to resolve its cash coverage issues as well as stabilize and maintain its cash reserves. It is anticipated that a Commission Order approving these measures may even result in an improvement to PWW's credit rating, and therefore, possibly a reduction in the overall anticipated interest rate of the contemplated bond issuance. The importance of which would be that it would enable the Company, relative to both its DW 20-055 and subsequent financings, to 1) gain access to the debt markets, and 2) attract the lowest cost of borrowings possible. Such would ultimately benefit PWW's customers through lower water rates.

Therefore, given the fact that a bond closing could be achieved as soon as 5-8 weeks following Commission approval of the DW 20-055 financing petition, and the positive impact and potential savings that may result relative to that bonding process if approvals are granted regarding the proposed rate structure modifications in the instant docket, the Settling Parties agree and respectfully request the Commission issue an initial order in this proceeding approving those rate structure modifications by no later than July 31, 2020.

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The Settling Parties emphasize that the requested initial order will not result in the immediate establishment of a rate increase for PWW's customers, but, merely, the establishment of revenue requirement modifications to be employed in the subsequent determination of a proposed revenue requirement and resulting customer rates to be submitted for Commission approval during the Fall of 2020, as discussed below. The Settling Parties further emphasize that the proposed rate making modifications requested for initial Commission approval will not eventually result in the establishment of a proposed base rate revenue requirement that exceeds \$35,418,749, as discussed previously.

The Settling Parties further agree that the proposed permanent rate tariffs, submitted by the Company on July 1, 2019, with an effective date of August 1, and suspended for a period of 12 months by Order No. 26,279 (July 31, 2019), will not take effect.

b. Subsequent Order Approving Revenue Requirement and Rates

The Settling Parties agree and recommend the Commission issue a subsequent order after the closing date of PWW's anticipated bond issuance in DW 20-055, approving a revenue requirement and customer rates that are reflective of the actual debt service savings realized by the Company as a result of that bond issuance. As previously recommended, the approved revenue requirement from base rates shall not exceed \$35,418,749, reflecting a percentage increase of 11.91% as originally proposed by PWW in its initial rate filing.

To facilitate the institution of rates resulting from this rate proceeding, the Settling Parties agree and recommend the Commission approve that PWW shall file its final proposal for a revenue requirement along with a final calculation of permanent rates by no later than twenty-one (21) days after the closing date of the bond issuance in DW 20-055. PWW's subsequent filing is currently anticipated to occur by mid- to late-September 2020. As previously

recommended, the final revenue requirement proposed by PWW shall incorporate the full net debt service savings realized by the Company as a result of the DW 20-055 bond issuance. The Settling Parties further agree that the only modifications that may result to the estimated revenue requirement calculations appearing on Appendix 2, Attachment C, Summary (middle/right columns) previously discussed, will be to the MOEF (line 10), the MOEF Calculated Amount (line 11), the OERR (line 12), the Debt Service Savings from DW 20-055 (line 17), the calculated Reduction in Revenue Requirement (line 19), and the Proposed Revenue Requirement (line 20) as well as the following (lines 21, 23, 25, and 27).

The Settling Parties further agree and recommend that Staff and the Parties issue recommendations to the Commission regarding PWW's proposed final revenue requirement and resulting rates by no later than twenty-one (21) days following the Company's submission. The Settling Parties agree and respectfully request the Commission issue its subsequent order approving PWW's revenue requirement and resulting customer rates in the instant proceeding by no later than thirty (30) days following the filing of recommendations by Staff and the other Parties.

The Settling Parties further agree and acknowledge that the permanent revenue requirement and resulting rates will not be set until after the 12 month suspension period and investigation initially set by the Commission in Order No. 26,279. The Settling Parties further agree that, despite the extension beyond the 12 month investigatory period, and dependent upon Commission approval of the Settlement Agreement, a rate increase will not be instituted until approved by the Commission in the subsequent order issued, as described above.

B. Other Modifications to PWW's Overall Ratemaking Structure

1. Modification to the Calculation of the 5-Year Average for Revenues

As part of the modifications approved in DW 16-806, PWW calculates its revenue requirement based on a trailing 5-year average for revenues. With regard to the instant rate proceeding, the calculation of the 5-year average would have encompassed the years 2014 through 2018. However, as stated in the direct pre-filed testimony of Donald L. Ware (Bates 64), 2016 was a drought year resulting in record water consumption by its customers. As such, the inclusion of 2016's data in the 5-year average calculation would have provided for a significantly skewed result leading, ultimately, to a possible understatement of PWW's calculated revenue requirement. As such, PWW proposed the elimination of the Company's 2016 data and a trailing average revenue calculation based on the four remaining years. Staff, however, argued that the calculation of the Company's trailing average revenues should be based on a full 5-years of data so as to conform with that which was approved in DW 16-806.

As a result, the Settling Parties agree and recommend the Commission approve that in rate proceedings where an "atypical" year would be included in the calculation of PWW's 5-year trailing average for revenues, that "atypical" year's data would be substituted for data from the next most recent preceding typical operating year's data. The Settling Parties further agree that an "atypical" year should be defined as one in which that year's water consumption either exceeds or falls short of the calculated trailing 5-year average of water consumption by more than 15%.¹⁵ The Settling Parties also agree that this should be a permanent modification to PWW's overall ratemaking structure.

¹⁵ For purposes of determining whether an "atypical" year exists, that calculation shall be based on the trailing 5-year average of the test year as well as the four immediately preceeding years. Therefore, the

With regard to the instant rate proceeding, the Settling Parties agree that the consumption data for 2016 would classify it as an "atypical" year for purposes of providing an accurate calculation of PWW's trailing 5-year revenue average. As such, the Settling Parties further agree and recommend the Commission find that PWW's operating data for 2016 should be replaced by the data from the next most recent preceding typical operating year, or 2013, for purposes of calculating the Company's trailing 5-year revenue average in this proceeding.

2. Inclusion of Actual NHBET Cash Payment in Revenue Requirement

As stated in the pre-filed testimony of Larry D. Goodhue (Bates 40), recent changes occurring to Federal tax laws will result in a more rapid than anticipated exhaustion of available Net Operating Loss (NOL) carryforwards that are used to offset current taxable income. As a result, PWW may be subject to actual cash costs related to Federal Income Taxes prior to its next fully promulgated rate proceeding. Additionally, the Company currently incurs actual cash payments relative to both the corporate Business Profits Tax (BPT) and Business Enterprise Tax (BET) assessed by the State of New Hampshire (NH), regardless of its NOL carryforward position. In its original filing, PWW requested the inclusion of the actual cash costs incurred for Federal income taxes and NH business taxes in the OERR component of its allowed revenues in this and future permanent rate cases. The purpose of which would be to have the necessary cash available from rates to pay these annual obligations. The Company's pro forma test year in this proceeding, however, only reflects PWW's actual cash payment relative to the NHBET in the amount of \$103,249 but does not include cash payments relative to either the NHBPT or Federal income taxes.

underlying trailing 5-year average data used in that determination shall be inclusive of the data pertaining to the potential "atypical" year.

As such, the Settling Parties agree and recommend the Commission approve that the actual cash cost of taxes for the NHBET should be included as an MOERR component of PWW's overall revenue requirement in this and future rate proceedings. The Settling Parties further agree that consideration of the inclusion of any actual cash outlays associated with the NHBPT and Federal income taxes in the Company's revenue requirement should be deferred to PWW's next rate proceeding.

3. <u>Re-Prioritization of Usage of Available DSRR-0.1 Funds</u>

Per the approved ratemaking mechanism in DW 16-806, revenues collected by PWW via its DSRR-0.1 component of its overall revenue requirement are deposited in a DSRR-0.1 account. See Appendix 2, Attachment A. Further, the current priority relative to the usage of any funds available in the Company's DSRR-0.1 account is as a funding source for PWW's annual capital improvements program so as to mitigate the incurrence of debt by the Company. However, as stated in the direct pre-filed testimony of Larry D. Goodhue (Bates 41), the present priority for uses of the DSRR-0.1 funds are illogical, especially in light of the present necessity for the Company to stabilize its MOERR-RSF and avert diminishment of all its RSFs between general rate proceedings.

Therefore, the Settling Parties agree and recommend the Commission authorize that, effective January 1, 2021 and thereafter, the Company re-prioritize its usage of funds available in its DSRR-0.1 account in the following manner, by order of priority: 1) fund the cost of PWW's deferred assets (i.e. studies, engineering design work completed in advance of construction bids and construction, and other intangible assets) that do not qualify for debt financing and, thus, QCPAC recovery; 2) replenish PWW's RSF fund balances to their fully approved imprest values; and 3) fund PWW's capital improvements, as previously authorized in DW 16-806.

4. <u>Recovery of SRF and DWGTF Debt Issuance Costs</u>

Prior to its acquisition by the City, the debt issuance costs incurred by PWW to obtain loans through such programs as the State of New Hampshire's Drinking Water State Revolving Loan Fund (DWSRF) or Drinking Water and Groundwater Trust Fund (DWGTF) were recovered as part of its cost of debt via the annual amortization of these costs over the life of the loan. However, as explained in the direct pre-filed testimony of Larry D. Goodhue (Bates 44-45) under PWW's present ratemaking structure, the amortization of debt acquisition expenses associated with DWSRF and DWGTF loans are no longer recoverable as they are not included in the OERR component of PWW's overall revenue requirement. Although, on average these costs might be considered *di minimis.*¹⁶ However, during a given year, such might represent an expense to the Company for which it has no cash coverage. By contrast, PWW is able to recover the debt issuance costs associated with its taxable and tax-exempt bonds by virtue of the fact that these costs are included as part of the overall bond issuances that are recovered via the DSRR component of its overall revenue requirement.

As a remedy to the cash coverage shortfall that PWW presently experiences relative to its debt acquisition costs incurred for procuring DWSRF and DWGTF loans, the Settling Parties agree and recommend the Commission authorize PWW, commencing as of January 1, 2021 and thereafter, to record such costs in its Outside Services Expense account to be recovered through the OERR revenue component of its overall revenue requirement. It should be noted that per the approved Settlement Agreement in DW 16-806, Outside Services Expense is classified as a Non-

¹⁶ Based on the Company's response to Staff 1-12 (Exhibit 10), the average issuance costs associated with these loans are approximately \$7,200. Additionally, the Company, on average, has procured one such loan each year during the ten years leading up to and including its 2018 test year.

Material Operating Revenue Requirement (NOERR) account. As such, there would be no cash over-cover for these expenses through PWW's MOERR-RSF.

5. <u>Re-establishment of Imprest Levels of RSF Accounts</u> <u>Retention of Reconciliation Mechanism</u>

The Settling Parties agree and recommend that the Commission approve the reestablishment of the imprest values of the CBFRR-RSF, MOERR-RSF and DSRR-1.0-RSF at the respective levels provided for and approved in Docket No. DW 16-806. Specifically, the CBFRR-RSF at \$680,000; the MOERR-RSF at \$2,850,000; and the DSRR-1.0-RSF at \$390,000. For purposes of this rate proceeding, these funds will be restored to the proposed imprest values on a one-time basis via a portion of the proceeds received from the proposed bond financing in DW 20-055. See Appendix 2, Attachment B.

In Docket No. DW 11-026, an RSF reconciliation mechanism was established wherein the Commission required PWW to maintain the target amount for the original \$5 million rate stabilization fund through adjustments, i.e. charges or credits, to PWW's revenue requirement in connection with its full rate proceedings. Subsequently, with the reallocation of \$3.92 million of the original rate stabilization fund amongst PWW's CBRFF-RSF, MOERR-RSF, and DSRR-1.0-RSF in Docket No. DW 16-806, as previously discussed, the original RSF reconciliation feature in Docket No. DW 11-026 was retained and applied to the established targets of the three RSF accounts. The Settling Parties agree and affirm the continuation of the RSF reconciliation mechanism in PWW's subsequent rate proceedings, whereby the target RSF balances will be maintained via charge or credit adjustments to PWW's established revenue requirements in those proceedings. Further, the Settling Parties agree that the addition of the MOEF will not alter that reconciliation mechanism. See Appendix 2, Attachment A.

C. <u>Permanent Customer Rates</u>

1. <u>Background</u>

An ACOSS was conducted by Concentric Energy Advisors to implement an overall rate increase of 11.91%. The ACOSS recommended the following rate increases by customer class: General Metered (G-M) and Special Contracts 7.85%; Municipal Fire Customers – 24.20%; and Private Fire Customers – 72.09%. There was also a recommendation to shift the split of G-M revenues from 35.5% fixed / 64.5% volumetric to 42.8% fixed / 57.2% volumetric. However, the Company recommended in testimony not implementing this shift because it would: 1) cause the largest rate impact on the small users, especially retired rate payers; 2) discourage conservation due to the lower volumetric rate; and 3) result in less revenues from the Company's special contract customers who already benefit from a reduced volumetric rate. Due to municipal budget considerations, the Settling Parties negotiated a more gradual implementation of the 24.20% increase to the Municipal Fire rate class but provided for a return in later years to those customers seeing a larger percentage increase than the recommended 7.85% (under the maximum revenue requirement scenario) in the first year.

2. Specific Settlement Terms Regarding Proposed Phase-in

The Settling Parties agree and recommend the Commission approve a modification to the percentage allocations to the rate-class recommendations contained in the original ACOSS. The modifications appear below. Appendix 2, Attachment D, Page 1 contains calculations and projected rate impacts based on the maximum proposed increase in PWW's revenue requirement from base rates of 11.91%. Appendix 2, Attachment D, Page 2 contains calculations and projected rate impacts based on the estimated increase in PWW's revenue requirement from base rates of 11.91%. Appendix 2, Attachment D, Page 3 and 4 contain the percent changes

(increase and decrease) among customer classes in years one and two as a result of the COSS

settlement phase-in under both the 11.91% and 11.35% revenue requirement increase scenarios,

respectively. For illustrative purposes, the following terms are based on the proposed maximum

increase in revenues from base rates of 11.91%.

- **a.** The monthly customer charge for G-M Residential Fixed will increase by 7.85%.
- **b.** All Other G-M Charges, including G-M Residential Volumetric and rates for Municipal Fire Protection Service will increase by 10.25%.
- **c.** Special Contract customers' rates shall be adjusted in accordance with the terms of the existing special contracts.
- d. The rates for Private Fire Protection Service will increase by 72.09%.
- e. During each subsequent year following initial implementation of the new rates and ending with year 6, the Municipal Fire Protection Service rates will increase by 3.00% over the prior year's rate. Concurrently, all Other G-M Charges¹⁷ will decrease by a corresponding percentage designed to equalize the previously approved revenue requirement. For example, during the first subsequent year, Other G-M Charges will decrease by approximately 0.53%. During the second subsequent year, these charges will decrease by approximately 0.55%.
- **f.** In PWW's next rate case, with a projected test year 2021, the adjustments described in (d) will be applied prior to implementation of the revenue requirement approved in that proceeding. The approved revenue requirement will then be applied uniformly across all rate classes. A similar process will be applied with regard to the subsequent rate case, with a projected test year of 2024.
- **g.** PWW shall undertake its next ACOSS in conjunction with its third subsequent rate case following the instant proceeding, with a projected test year of 2027.

¹⁷ This specifically excludes G-M Residential Fixed Charges, Private Fire Protection Service Charges, and Special Contract Fixed Charges.

The Settling Parties further agree that in the likely event that PWW's approved revenue increase from base rates is less than 11.91%, the above parameters will be adjusted on a pro-rata basis after issuance of the Commission's subsequent order in this proceeding approving a finalized revenue requirement that is reflective of the actual debt service savings realized by the Company from its DW 20-055 bond issuance.

3. <u>Projected Impacts on Residential Customers</u>

The Settling Parties agree that under the scenario whereby the estimated overall increase in PWW's revenue requirement from base rates is 11.35%, PWW's residential customers will realize an increase of \$4.49 in their average monthly bills (\$53.88 on an annual basis) from approximately \$51.02 per month to approximately \$55.51 per month. If the QCPAC surcharges customers already pay is factored into the increase, the net increase is only \$2.42 per month. The Settling Parties further agree that under the scenario whereby the overall increase in PWW's revenue requirement from base rates results in the stipulated 11.91% maximum increase, PWW's residential customers will realize an increase of \$4.71 in their monthly bills (\$56.52 on an annual basis) from approximately \$51.02 per month to approximately \$55.73 per month. The Settling Parties agree that these projections are based on an average residential monthly usage amount of 7.77 ccf.

D. <u>Effective Date for Permanent Rates</u>

1. The Settling Parties agree and recommend that the effective date for Permanent Rates shall be pursuant to the Commission's order in this proceeding regarding the settlement agreement on temporary rates presented at hearing on May 13, 2020, and specifically, the Commission's decision in that order regarding an appropriate effective date for temporary rates in this proceeding.

2. Pursuant to RSA 378:29, in order to reconcile the difference between temporary rates and permanent rates, the Settling Parties agree and recommend the Commission authorize PWW to charge customers an amount equal to the difference between the revenues the Company would have collected had the agreed upon level of permanent rates been in effect for service rendered on and after the established effective date for temporary rates through the issuance date of the Commission's subsequent order in this proceeding approving a finalized revenue requirement (the recoupment period), and the actual revenues collected by PWW during that recoupment period. Upon the issuance of the Commission's subsequent order approving a finalized permanent rate revenue requirement and resulting customer rates in this proceeding, PWW agrees to file, within thirty (30) days of that order, a calculation of the temporarypermanent rate recoupment and a surcharge recommendation for Commission review and approval. PWW agrees to calculate the surcharges based on each customer's actual usage during the recoupment period. The Settling Parties agree that they will have an opportunity to review PWW's proposal and provide recommendations to the Commission for its consideration prior to the issuance of an order.

The resulting surcharge shall be reflected as a separate item on all customers' bills. Upon receipt of the Commission's order approving a temporary-permanent rate recoupment, PWW agrees to file, within fifteen (15) days of that order, a compliance tariff supplement including the approved surcharge relating to the total recoupment of the difference between the level of temporary rates and permanent rates, as well as the average monthly surcharge for each customer class based on customers' individual usage.

E. Additional Requirements for Monthly, Semi-Annual and Annual Reporting

Given the issues previously described with regard to PWW's difficulties relative to cash flow coverage and maintaining an adequate cash balance in its respective RSF reserve accounts, resulting in the proposed establishment of the MOEF as well as other rate structure modifications, the Settling Parties agree and recommend the Commission approve that in addition to other Commission reports required from PWW by rule and by statute that, commencing on January 1, 2021, the Company shall file the following additional reports with the Commission:

1. <u>Monthly Reporting</u>

The Settling Parties agree and recommend the Commission approve that PWW will file the following monthly reports with the Commission within forty-five (45) days after the last day of the reported month:

- a. <u>Income Statement</u> showing monthly and year-to-date activity.
- **b.** <u>**Balance Sheet**</u> by month and to date including the GAAP basis cash balances of the CBFRR-RSF, MOERR-RSF, DSRR-1.0-RSF, and DSRR-0.1 accounts.

2. <u>Semi-Annual Reporting</u>

The Settling Parties agree and recommend the Commission approve that PWW will file the following semi-annual reports with the Commission within forty-five (45) days after June 30 and within ninety (90) days after December 31:

- **a.** <u>**Detailed Debt Service Schedule**</u> showing the actual principal and interest cash payments made by the Company on each of its outstanding debt issuances.
- b. <u>NHBET and NHBPT</u> actual cash payments made or refunds received.

- c. <u>Federal Income Tax</u> actual cash payments made or refunds received.
- d. <u>MOERR Variance Report</u>: The Company will provide a written narrative for year-to-date amounts as of June 30 and December 31, substantiating and explaining the major items that comprise the difference between actual current year MOERR expenses versus the allowed MOERR expenses as authorized from the most recently completed permanent rate case. This report will provide the basis and explanation for up to 80% of the MOERR expense difference.

3. <u>Annual Reporting</u>

In addition to the annual report filing required from PWW in accordance with N.H.

Admin. R., Puc 609.04 and 609.14, the Settling Parties agree and recommend the Commission

approve the following additional reports to be provided by PWW with that filing:

- a. <u>Reconciliation of Net Income/Loss with Calculated Revenue</u> <u>Surplus/Deficit</u>: An annual reconciliation of PWW's actual Net Income/Loss as reported on Schedule F-2 of its Annual Report with its recognized Revenue Surplus/Deficit as calculated based on the ratemaking structure approved in DW 16-806 and modified in the instant rate proceeding.
- b. <u>Reconciliation of Cash and Regulatory RSF Account Balances</u>: A reconciliation of the year-end cash balances of the CBFRR-RSF, MOERR-RSF, and DSRR-1.0-RSF accounts with the respective year-end regulatory balances of the CBFRR-RSF, MOERR-RSF, and DSRR-1.0-RSF. (Regulatory Balance is defined as that relating to the revenue and expenditure general ledger activity relative to the respective RSF accounts. This is not the same as the GAAP basis cash balances of the respective RSF accounts.)

F. <u>Resolution of Repeat Audit Issues</u>

During the Commission Audit Staff's review of PWW's financial information relative to this rate proceeding, it made several audit findings contained in its Final Audit Report dated November 6, 2019 to which the Company expressed disagreement. Certain of these findings have been cited by the Audit Staff in previous examinations of the Company, but because there was no specific resolution for such within the context of an approved rate case settlement, these

issues continue to be areas of dispute between the Audit Staff and PWW. Therefore, in an effort to resolve both existing or potential long-standing audit disputes between the Company and Staff, and for purposes of achieving administrative efficiency in future rate proceedings, the Settling Parties present for the Commission's approval the following proposed resolutions of certain outstanding audit issues cited by the Audit Staff in its report.

1. <u>Audit Issue # 2: Allocation of Return of Common Assets</u>

The Audit Staff included a finding that PWW's calculation for Return on Common Assets allocated to its affiliates included five deferred accounts relating to post-retirement benefits, and that these same five deferred accounts were included in the same calculation relating to PWW's determination of "Unfunded FAS 106 and FAS 158 Costs" relative to the income tax effect of certain post-retirement costs. The overall calculation resulted in the determination of a return on certain common assets held by PWW and its affiliates, which was to be allocated amongst the affiliates. The Audit Staff concluded that, with regard to the postretirement accounts, the costs related to which were being double-counted, thus resulting in a potential over-allocation of expense.

Staff made further inquiries of PWW through discovery with regard to this Audit Issue. Based on the Company's responses, Staff concluded that the inclusion of the five deferred postretirement accounts in the first instance was to ensure that the return on the full pre-tax value of these accounts was properly allocated to the Company's affiliates. With regard to the second instance relative to the calculation of "Unfunded FAS 106 & FAS 158 Costs", Staff concluded that the purpose of this calculation was to ensure that the tax effect associated with these postretirement accounts was also properly incorporated within the return allocated to PWW's affiliates. Therefore, the Settling Parties agree and recommend the Commission find that

PWW's computation of Return on Common Assets allocated to its affiliates as it specifically pertains to the Company's post-retirement accounts is just and reasonable.

2. <u>Audit Issue # 4: Accounting for Principal Forgiveness on DWSRF</u> Loans

With regard to certain DWSRF loans held by the Company that contain principal forgiveness provisions, the Audit Staff concluded that PWW's accounting of the principal forgiveness on these loans ultimately results in an understatement of the Company's Contributions in Aid of Construction (CIAC) and an overstatement of its recognized Gains on Disposition of Assets. PWW, however, argued that, given the fact that the principal forgiveness associated with these loans is not necessarily guaranteed, it has no choice but to account for such in the manner that it does. It is Staff's conclusion that, since under PWW's approved ratemaking structure neither the balance of the Company's CIAC account nor its Gain on Disposition of Assets account impacts the calculation of its revenue requirement, the present methodology employed by PWW to account for principal forgiveness on its DWSRF loans is acceptable. As such, the Settling Parties agree and recommend the Commission find that PWW's current methodology for accounting for principal forgiveness on its DWSRF loans is appropriate.

3. <u>Audit Issues # 7, # 9, and # 10: Inclusion of Net Non-Operating</u> <u>Revenues in Company's Revenue Requirement Calculation</u>

The Company currently records its jobbing revenues and associated jobbing expenses in the accounts specified by the Uniform System of Accounts (USoA) for Water Utilities. However, also according to the USoA, jobbing revenues and expenses are classified as nonoperating, or "below-the-line" accounts. During the 2018 test year PWW recorded jobbing revenues of \$337,556 and jobbing expenses of \$145,582. The net of which, or \$191,974, the Company included in its Other Operating Revenues for purposes of calculating its revenue

requirement in the instant rate proceeding. The Audit Staff concluded that such classification was inappropriate based on the definition of these revenues and expenses as contained in the USoA (Audit Issue # 7). The Audit Staff further concluded that PWW's lack of compliance in this regard also contributed to its findings with regard to the balance of PWW's Allowance for Doubtful Accounts (Audit Issue # 9) as well as the Company's overall lack of compliance with aspects of the USoA (Audit Issue # 10). The Company argued that net jobbing revenues have been included in its other operating revenues in all of its previous rate cases dating back to 1996. PWW further argued that the inclusion of its net jobbing revenues in other operating revenues actually results in a benefit to ratepayers by reducing its calculated revenue requirement. As such, the Settling Parties agree and recommend the Commission find that PWW's inclusion of its net jobbing revenues in other operating revenues for purposes of calculating its overall revenue requirement is appropriate.

4. <u>Audit Issue # 8: Allocation of Revenues to Pennichuck Water Service</u> <u>Company</u>

The Audit Staff found that PWW receives monthly revenues from the City related to the purchase of water consumption data for purposes of the City's sewer billings. Of the revenues received from the City, 90% is allocated to PWW and 10% is allocated to its affiliate, Pennichuck Water Services Company (PWSC). During the test year, approximately \$118,000 was received from the City for PWW's water consumption data, with approximately \$106,000 allocated to PWW and approximately \$12,000 allocated to PWSC. However, even though this allocation of revenues had been the Company's standard practice dating back to the mid-1990s, and accepted by the Commission, there is no longer an apparent reason for the apportionment of any of these revenues to PWSC. However, given 1) the *di minimis* amount of revenues allocated to PWSC during the test year, and 2) the Commission's past acceptance of this revenue

allocation, the Settling Parties agree and recommend the Commission approve this allocation of revenues relative to the 2018 test year for purposes of calculating PWW's revenue requirement in the instant rate proceeding. The Settling Parties further agree and recommend that, commencing with the Company's 2020 operating year and following, any revenues received from the City for the Company's consumption data should be fully attributed to PWW, only.

G. <u>Frequency of Rate Cases</u>

In light of PWW's unique ratemaking structure that the Settling Parties have proposed be further modified in this rate proceeding including the establishment of a MOEF, and in light of the fact that PWW is a debt-only financed entity that is acutely sensitive to changes in in cash flow relative to factors such as weather changes, as well as the negative effects of regulatory lag, the Settling Parties believe that PWW should submit filings for general rate increases with the Commission on a frequent basis.

Therefore, the Settling Parties agree and recommend the Commission approve that PWW shall maintain a three-year full rate case cycle, such that PWW will file a general rate case, pursuant to RSA 378:3 and PART Puc 1604, every three years.

This settlement term is not intended to remove or otherwise modify the settlement term approved in the DW 16-806 settlement agreement, at section III, C, 3, d., requiring PWW to file a full rate case when the average of the amounts of cash held in the combined rate stabilization funds (CBFRR-RSF, DSRR-1.0-RSF, and MOERR-RSF) as of the last day of each month for the 13-month period ending December 31st of each year is greater than 150% of the combined target amount for such funds, as most recently established by the Commission. This settlement term is also not intended to limit PWW's ability to file for rate changes, pursuant to State law including

RSA Chapter 378, in the event PWW believes circumstances warrant filing for emergency rates or other rate relief.

The Settling Parties agree and recommend that the Commission require PWW to file its subsequent rate cases in accordance with the procedures and methodologies described in this Agreement, unless otherwise modified by the Commission, and consistent with the computations set forth in the exhibits and attachments to this Agreement.

H. <u>Rate Case Expense Surcharge</u>

The Settling Parties agree and recommend the Commission approve PWW's recovery of its reasonable rate case expenses for this proceeding through a surcharge. PWW's rate case expenses may include, but are not limited to, legal and consultant expenses, incremental administrative expenses such as copying and delivery charges, and other expenses allowed under Puc 1906.01. PWW agrees to file its final rate case expense request, pursuant to Puc 1905.02, no later than thirty (30) days from the date of the Commission's subsequent order in this proceeding approving PWW's finalized revenue requirement and resulting customer rates, anticipated during the Fall of 2020. The Settling Parties agree that they will have an opportunity to review the rate case expenses and provide recommendations to the Commission for approval.

I. <u>Phased-In Effective Dates to Mitigate Impact on Customer Bills</u>

In light of the recent financial strain experienced by New Hampshire residents and PWW's customers as a result of the COVID-19 Emergency, but also in recognition of the importance of timely rate relief for PWW as previously discussed, the Settling Parties propose to sequence implementation of certain rate increases and surcharges in order to balance the interest of customers in mitigating bill impacts and PWW's interest in timely rate relief. As illustrated in Appendix 2, Attachment E, and assuming issuance of the Commission's subsequent order in this

proceeding approving a finalized revenue requirement for October 2020 and resulting in the

issuance of affected customer bills also in October 2020, the Settling Parties recommend that

PWW:

- 1. Commence implementation of its 2020 QCPAC surcharge one month following the implementation of new base rates (currently estimated to commence with November 2020 customer bills payable in December 2020);
- 2. Commence implementation of its 2020 QCPAC recoupment one month following the implementation of new base rates and extend the recovery period for such over four months (currently estimated to commence with November 2020 customer bills payable in December 2020 and continuing through February 2021 customer bills payable in March 2021);
- 3. Commence implementation of its rate case expense recovery surcharge five months following the implementation of new base rates, at the earliest, but no sooner than one month following the billing of the last monthly 2020 QCPAC surcharge, and extend the recovery period for such over twelve months (currently estimated to commence with March 2021 customer bills payable in April 2021, and continuing through February 2022 customer bills payable in March 2022); and
- 4. Commence implementation of the temporary permanent rate surcharge three months following the implementation of new base rates, at the earliest, but no sooner than two months following the initial implementation of the 2020 QCPAC surcharge and recoupment, and extend the recovery period for such over eighteen months (currently estimated to commence with January 2021 customer bills payable in February 2021, and continuing through June 2022 customer bills payable in July 2022).

The above implementation months are illustrative, only, and will be affected by the

timing of the Commission's orders approving rate changes. The Settling Parties request that if

the Commission's subsequent order approving a revenue requirement and resulting customer

rates is issued after October 2020, that the Settling Parties be allowed to revise their

recommended sequencing of rate changes to balance PWW's and customers' interests.

J. <u>PWW's Motion for Confidential Treatment</u>

With its original rate filing, PWW filed a Motion for Protective Order and Confidential Treatment of Confidential and Payroll Information (Motion) in accordance with N.H. Admin. R. Puc 203.08 and RSA 91-A:5. Specifically, PWW requested confidential treatment of certain officer and director compensation not included in PWW's Annual Report, but provided at Tab 28 of its rate filing with respect to Puc 1604.01(a)(14). The Company stated that this information falls within the RSA 91-A:5. IV exemption because the information relates to internal personnel practices and is confidential financial information. Additionally, disclosure of this information would result in an unwarranted invasion of personal privacy for the officers and directors involved. PWW also requested confidential treatment concerning the disclosure of certain salary information and job titles provided at Tab 11, Schedule 1, Attachment F, Pages 3 and 4 of its rate filing with respect to Puc 1604.07(a)(5) and Puc 1604.07(j). PWW stated that this information also falls within the RSA 91-A:5, IV exemption because the information relates to internal personnel practices, is confidential financial information, and that its employees have a privacy interest in their pay data. Further, the Company stated that disclosure of this information would also cause PWW competitive harm because it would make it more difficult to attract or retain qualified employees. Salary data was also subject to discovery in this proceeding as Staff 1-28, Staff 1-37, Staff 2-30, and Staff 2-32 or attachments thereto. As such, the Settling Parties agree and recommend the Commission approve PWW's motion and protect from public disclosure the confidential payroll information.

LDG Exibit 2

IV. CONDITIONS

A. The Settling Parties expressly condition their support of this Agreement upon the Commission's acceptance of all its provisions, without change or condition. If the Commission does not accept the provisions in their entirety, without change or condition, any party hereto, at its sole option exercised within 15 days of such Commission order, may withdraw from this Agreement, in which event it shall be deemed to be null and void and without effect and shall not be relied upon by any Settling Party to this proceeding or by the Commission for any purpose.

B. The Commission's acceptance of this Agreement does not constitute continuing approval of, or precedent regarding, any particular principle or issue in this proceeding, but such acceptance does constitute a determination that the adjustments and provisions set forth herein in their totality are just and reasonable and consistent with the public interest. In its order addressing the approvals recommended in this Agreement, the Commission should expressly find that the approvals recommended herein are unique to this case and should not be viewed as having precedential impact with respect to any particular principle or issue in this proceeding for any other case or situation for reasons.

C. The discussions that produced this Agreement have been conducted on the explicit understanding that all offers of settlement relating thereto are and shall be confidential, shall be without prejudice to the position of any party or participant representing any such offer or participating in any such discussion, and are not to be used in connection with any future proceeding or otherwise.

D. This Agreement may be executed in counterparts.

IN WITNESS WHEREOF, the Settling Parties have caused this Agreement to be duly signed by their respective fully-authorized representatives.

Pennichuck Water Works, Inc.

Mania aBrown

By its Attorney, Marcia A. Brown For Docket No. DW 19-084

Har Richard W Head

By its Attorney, Richard W. Head For Docket Nos. DW 19-084 and DW 20-055

Staff of the New Hampshire Public Utilities Commission

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By its Attorney, Christopher Tuomala

Office of the Consumer Advocate

Dated: June ____, 2020

Dated: June , 2020

Date: June 24, 2020

Date: June 24, 2020

By its Attorney, Christa Shute

City of Nashua

Dated: June ____, 2020

By its Attorney, Steven A. Bolton

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IN WITNESS WHEREOF, the Settling Parties have caused this Agreement to be duly signed by their respective fully-authorized representatives.

Pennichuck Water Works, Inc.

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By its Attorney, Marcia A. Brown For Docket No. DW 19-084

By its Attorney, Richard W. Head For Docket Nos. DW 19-084 and DW 20-055

Staff of the New Hampshire Public Utilities Commission

Dated: June ____, 2020

Dated: June 24, 2020

Date: June 24, 2020

Date: June 24, 2020

By its Attorney, Christopher Tuomala

Office of the Consumer Advocate

By its Attorney, Christa Shute

City of Nashua

Attorney, Steven A. Bolton

Dated: June 24, 2020

LDG Exibit 2

Pennichuck Water Works 2020 Refunding Analysis

1) Taxable Bonds with	, h Level Deht Servic	•								Appendix	1 - Attac	hment A Pro	Forma Finan	ncial Net Debt Serv	ice Cash Flow
Bond Year		ent Annual Debt Ser	vice				(A)							(B)	
							Total Aggregate								
Ending Dec. 31	<u>2014A</u>	<u>2014B</u>	<u>2015A</u>	<u>2015B</u>	<u>2018A</u>	<u>2018B</u>	Debt Service	Total Debt Service:	Total Savings:	2020 New Money	AULI	2020 New Money	Total Refunding	Estimated New	(A)-(B)
	Total	Total	Total	Total	Total	Total	Total	2020 Refunding	2020 Refunding	Debt Service (2)	Savings .	+ Refunding DS	Savings .	Aggregate DS	Cash Flow Savings
2021	2,789,469	320,150	1,459,238	193,375	204,375	190,000	5,156,606	3,224,420	1,217,661	279,616	32,328	3,504,036	1,249,990	4,186,232	970,374
2022	2,793,344	320,088	1,462,363	192,500	204,375	200,000	5,172,669	3,219,023	1,229,183	277,418	34,088	3,496,441	1,263,271	4,186,816	985,853
2023	2,793,969	319,800	1,463,738	191,375	204,375	210,000	5,183,256	3,218,001	1,231,080	280,153	30,412	3,498,154	1,261,492	4,201,917	981,340
2024	2,786,469	324,175	1,458,488	190,000	204,375	220,000	5,183,506	3,220,999	1,213,957	277,799	31,714	3,498,799	1,245,671	4,215,635	967,871
2025	2,790,594	323,213	1,461,488	193,250	204,375	230,000	5,202,919	3,222,425	1,222,906	280,311	32,988	3,502,737	1,255,894	4,227,336	975,582
2026	2,786,094	322,025	1,462,488	191,125	204,375	240,000	5,206,106	3,222,340	1,217,366	277,695	34,219	3,500,035	1,251,585	4,232,216	973,890
2027	2,787,844	320,613	1,466,363	193,625	204,375	250,000	5,222,819	3,221,234	1,226,598	279,993	35,344	3,501,227	1,261,941	4,240,871	981,948
2028	2,790,469	323,863	1,458,238	190,750	204,375	260,000	5,227,694	3,218,470	1,220,986	277,151	31,488	3,495,621	1,252,475	4,252,370	975,324
2029	2,783,969	321,775	1,462,988	192,500	336,000		5,097,231	3,218,951	1,220,505	279,164	32,648	3,498,116	1,253,153	4,123,243	973,989
2030	2,788,094	324,350	1,460,363	193,750	339,000		5,105,556	3,223,135	1,219,071	276,086	33,692	3,499,221	1,252,763	4,128,880	976,676
2031	2,787,469	321,588	1,465,238	189,625	336,625		5,100,544	3,221,701	1,220,630	277,553	30,640	3,499,254	1,251,270	4,126,826	973,718
2032	2,782,969	323,488	1,461,644		338,875		4,906,975	3,219,559	1,025,054	278,487	33,438	3,498,046	1,058,492	4,126,970	780,005
2033	2,790,169	320,050	1,460,000		335,750		4,905,969	3,220,773	1,029,396	279,249	31,122	3,500,021	1,060,518	4,124,699	781,270
2034	2,788,869	321,275	1,461,338		337,250		4,908,731	3,220,257	1,029,950	279,837	33,692	3,500,094	1,063,642	4,124,927	783,805
2035	2,779,269	322,050	1,460,550		338,250		4,900,119	3,218,011	1,021,808	280,253	31,148	3,498,263	1,052,956	4,127,415	772,704
2036	2,781,169	322,375	1,457,638		338,750		4,899,931	3,218,948	1,019,858	280,495	33,490	3,499,443	1,053,348	4,127,078	772,853
2037	1,156,859	322,250	444,125		333,875		2,257,109	3,222,896	(1,621,912)	275,651	30,718	3,498,547	(1,591,194)	4,123,954	(1,866,845)
2038	1,157,519	321,675	445,738		338,500		2,263,431	3,224,768	(1,621,512)		32,832	3,500,489	(1,588,680)	4,127,832	(1,864,400)
2039	1,156,734	320,650 324,063	441,788		338,344		2,257,516	3,214,737	(1,616,215)	275,617 280,254	34,718	3,490,354	(1,581,497)	4,114,630	(1,857,114)
2040	1,154,506		442,275		338,569		2,259,413	3,222,630	(1,625,849)		31,490	3,502,884	(1,594,359)	4,134,025	(1,874,613)
2041 2042	1,155,731	321,913 324,200	442,088		338,369		2,258,100	3,221,293	(1,623,474)	279,467 278,336	33,148 34,578	3,500,759 3,503,899	(1,590,326)	4,127,892	(1,869,792)
	1,155,306	324,200	441,225		337,744		2,258,475	3,225,563	(1,629,032)				(1,594,454)	4,131,265	(1,872,790)
2043 2044	1,158,128 1,154,197	320,925	444,575 442,138		336,694 335,047		2,260,322	3,217,272 3,216,418	(1,614,568)	277,023 275,526	30,894 32,096	3,494,294 3,491,944	(1,583,674) (1,587,988)	4,121,019 4,116,982	(1,860,697)
2044 2045	1,158,409	522,088	442,138		337,688		2,253,469 1,940,009	3,222,637	(1,620,084) (1,620,315)	278,755	33,070	3,501,392	(1,587,245)	3,806,009	(1,863,514) (1,866,000)
2045	1,156,409		443,913		334,781			3,220,836	(2,776,048)	276,710	55,070	3,497,545	(2,776,048)	3,832,326	(3,052,758)
2048			444,766		336,328		779,569 336,328	3,225,924	(3,225,924)	279,390		3,505,313		3,841,641	
2047					337,219		337,219	3,223,924	(3,217,901)	279,390		3,494,696	(3,225,924) (3,217,901)	3,831,914	(3,505,313) (3,494,696)
2048					557,219		337,219	3,221,675	(3,221,675)	278,926		3,500,601	(3,221,675)	3,500,601	(3,500,601)
2049								3,221,073	(3,221,973)	278,928		3,497,755	(3,221,973)	3,497,755	(3,497,755)
2050								3,221,973	(3,221,973)	275,783		3,497,755	(3,221,973) (3,218,793)	3,497,755	(3,496,158)
2051								3,221,954	(3,221,954)	278,581		3,500,534	(3,221,954)	3,500,534	(3,500,534)
2052								3,221,954 3,221,271	(3,221,954) (3,221,271)	278,581 279,431		3,500,534	(3,221,954) (3,221,271)	3,500,534	(3,500,534)
2053								3,221,271	(3,221,271)	279,431		3,500,702	(3,221,271)	3,501,569	(3,501,569)
2054								3,221,654 3,222,920	(3,222,920)			3,501,569	(3,222,920)	3,501,569	(3,502,952)
2055								5,222,920	(3,222,920)	280,055		3,502,952	(3,222,920)	5,502,952	(3,302,932)

(1) 2020 Refunding Bonds assumed to be dated and delivered on Sept. 1, 2020. Last prior bond interest payment is due on July 1, 2020.

Proposed refinancing assumes that the 2020 Refunding includes accrued interest from Sept. 1, 2020 until April 1, 2021 principal payment. (2) \$5.5 million Rate Stabilization Fund.

LDG-3

Appendix 1 - Attachment A Pro Forma Financial Net Debt Service Cash Flow

+ 100 basis point increases to the Taxable Bond Refunding Scenarios

A) Truck in Daniela with															
1) Taxable Bonds with							(-)							(5)	
Bond Year	Curre	ent Annual Debt Serv	ice				(A)	1						(B)	
							Total Aggregate								
Ending Dec. 31	2014A	2014B	2015A	2015B	2018A	<u>2018B</u>	Debt Service	Total Debt Service:	Total Savings:	2020 New Money	AULI	2020 New Money	•	Estimated New	(A)-(B)
	Total	Total	Total	Total	Total	Total	Total	2020 Refunding	2020 Refunding	Debt Service (2)	Savings .	+ Refunding DS	Savings	Aggregate DS	Cash Flow Savings
2021	2,789,469	320,150	1,459,238	193,375	204,375	190,000	5,156,606	3,947,222	779,505	317,017	28,096	4,264,239	807,601	4,666,022	490,585
2022	2,793,344	320,088	1,462,363	192,500	204,375	200,000	5,172,669	3,923,147	787,802	319,521	26,097	4,242,668	813,899	4,678,291	494,378
2023	2,793,969	319,800	1,463,738	191,375	204,375	210,000	5,183,256	3,913,397	791,323	316,935	28,563	4,230,331	819,886	4,680,305	502,951
2024	2,786,469	324,175	1,458,488	190,000	204,375	220,000	5,183,506	3,907,407	776,084	319,239	25,979	4,226,647	802,062	4,700,683	482,823
2025	2,790,594	323,213	1,461,488	193,250	204,375	230,000	5,202,919	3,904,496	782,266	321,309	28,400	4,225,805	810,666	4,713,561	489,357
2026	2,786,094	322,025	1,462,488	191,125	204,375	240,000	5,206,106	3,894,718	779,315	318,235	25,816	4,212,954	805,131	4,719,211	486,895
2027	2,787,844	320,613	1,466,363	193,625	204,375	250,000	5,222,819	3,888,539	786,515	320,054	28,166	4,208,592	814,681	4,728,191	494,627
2028	2,790,469	323,863	1,458,238	190,750	204,375	260,000	5,227,694	3,880,249	779,326	316,717	25,510	4,196,966	804,836	4,739,575	488,119
2029	2,783,969	321,775	1,462,988	192,500	336,000		5,097,231	3,874,722	777,749	318,222	27,845	4,192,944	805,594	4,609,860	487,372
2030	2,788,094	324,350	1,460,363	193,750	339,000		5,105,556	3,872,340	775,777	319,519	25,109	4,191,859	800,886	4,624,189	481,367
2031	2,787,469	321,588	1,465,238	189,625	336,625		5,100,544	3,858,891	782,247	320,274	27,703	4,179,165	809,949	4,610,868	489,676
2032	2,782,969	323,488	1,461,644		338,875		4,906,975	3,854,129	582,187	320,479	25,615	4,174,608	607,801	4,619,653	287,322
2033	2,790,169	320,050	1,460,000		335,750		4,905,969	3,846,916	587,852	320,462	28,413	4,167,377	616,264	4,610,166	295,803
2034	2,788,869	321,275	1,461,338		337,250		4,908,731	3,837,252	590,449	320,221	26,097	4,157,473	616,545	4,612,407	296,324
2035	2,779,269	322,050	1,460,550		338,250		4,900,119	3,834,913	575,297	319,758	23,781	4,154,670	599,077	4,620,799	279,320
2036	2,781,169	322,375	1,457,638		338,750		4,899,931	3,824,788	577,305	319,071	26,351	4,143,859	603,655	4,615,347	284,584
2037	1,156,859	322,250	444,125		333,875		2,257,109	3,811,993	(2,054,826)		28,693	4,130,154	(2,026,133)	4,601,404	(2,344,294)
2038	1,157,519	321,675	445,738		338,500		2,263,431	3,811,189	(2,058,854)		25,921	4,128,218	(2,032,934)	4,613,394	(2,349,963)
2039	1,156,734	320,650	441,788		338,344		2,257,516	3,802,155	(2,061,658)		28,035	4,122,717	(2,033,623)	4,611,701	(2,354,185)
2040	1,154,506	324,063	442,275		338,569		2,259,413	3,799,778	(2,068,126)		25,035	4,118,538	(2,043,091)	4,621,264	(2,361,852)
2041	1,155,731	321,913	442,088		338,369		2,258,100	3,787,072	(2,061,486)		26,921	4,103,648	(2,034,566)	4,609,242	(2,351,142)
2042	1,155,306	324,200	441,225		337,744		2,258,475	3,778,838	(2,061,644)		28,579	4,097,725	(2,033,065)	4,610,427	(2,351,952)
2043	1,158,128	320,925	444,575		336,694		2,260,322	3,776,407	(2,060,145)		25,123	4,097,139	(2,035,023)	4,616,077	(2,355,755)
2044	1,154,197	322,088	442,138		335,047		2,253,469	3,769,547	(2,066,758)		26,553	4,086,775	(2,040,205)	4,610,902	(2,357,433)
2045	1,158,409		443,913		337,688		1,940,009	3,758,255	(2,056,583)		27,755	4,076,629	(2,028,828)	4,287,211	(2,347,201)
2046			444,788		334,781		779,569	3,688,780	(3,244,194)			4,007,834	(3,244,194)	4,342,816	(3,563,247)
2047					336,328		336,328	3,690,659	(3,690,860)	319,268		4,009,926	(3,690,860)	4,346,456	(4,010,127)
2048					337,219		337,219	3,687,178	(3,687,379)			4,006,194	(3,687,379)	4,343,614	(4,006,395)
2049								3,688,106	(3,688,307)			4,006,403	(3,688,307)	4,006,604	(4,006,604)
2050								3,688,092	(3,688,293)			4,005,205	(3,688,293)	4,005,406	(4,005,406)
2051								3,682,020	(3,682,221)			4,002,367	(3,682,221)	4,002,568	(4,002,568)
2052								3,689,424	(3,689,625)			4,007,422	(3,689,625)	4,007,623	(4,007,623)
2053								3,689,838	(3,690,039)			4,009,904	(3,690,039)	4,010,105	(4,010,105)
2054								3,688,145	(3,688,346)			4,009,581	(3,688,346)	4,009,782	(4,009,782)
2055								3,688,997	(3,689,198)	317,223		4,006,220	(3,689,198)	4,006,421	(4,006,421)

(1) 2020 Refunding Bonds assumed to be dated and delivered on Sept. 1, 2020. Last prior bond interest payment is due on July 1, 2020.

Proposed refinancing assumes that the 2020 Refunding includes accrued interest from Sept. 1, 2020 until April 1, 2021 principal payment. (2) \$5.5 million Rate Stabilization Fund.

LDG Exibit 2



LDG-6 Appendix 1, Attachment B Pennichuck Water Works, Inc. BOD Approval

CORPORATE SECRETARY'S CERTIFICATE

PENNICHUCK WATER WORKS, INC.

I, Suzanne L. Ansara, do hereby certify that I am the duly elected Corporate Secretary of Pennichuck Water Works, Inc. (the "Company"), a New Hampshire corporation, and that I am authorized to execute and deliver this Certificate on behalf of the Company. In that capacity, I do hereby further certify that:

- 1. The following resolution was adopted by the Board of Directors of the Company on February 28, 2020; and such resolution has not been altered, amended or repealed, and is in full force and effect, as of the date hereof:
 - Resolved: that management is hereby authorized to proceed with the following process and approvals required to complete the refinance of the 2014 Series A and 2015 Series A&B bonded debt, the refill of the rate stabilization fund, and the refinance of the AULI Note Payable:
 - obtain New Hampshire Business Finance Authority (NHBFA) approval to issue taxable or tax-exempt bonds sufficient to fund the debt restructuring;
 - (2) file a financing petition with the New Hampshire Public Utilities Commission to seek approval to complete the financing activity;
 - (3) file a shareholder approval request with the City of Nashua to seek approval to complete the financing activity;
 - (4) file a joint approval request with the NHBFA to the State of New Hampshire Governor and Council, approving the funding of the taxable or tax-exempt bonds through the NHBFA; and
 - (5) complete the entire bond issuance and documentation process with the investment bankers and respective counsels.

In Witness Whereof, I have hereunto set my hand this 21st day of April, 2020.

Suzanne L. Ansara Corporate Secretary

LDG Exibit 2



LDG-7 Appendix 1, Attachment C Pennichuck Corporation BOD Approval

PENNICHUCK CORPORATION

CORPORATE SECRETARY'S CERTIFICATE

I, Suzanne L. Ansara, do hereby certify that I am the duly elected Corporate Secretary of Pennichuck Corporation (the "Company"), a New Hampshire corporation, and that I am authorized to execute and deliver this Certificate on behalf of the Company. In that capacity, I do hereby further certify that:

1. The following is a true and correct excerpt from the minutes of the Pennichuck Corporation Board of Directors meeting held on February 28, 2020:

"Pennichuck Water Works, Inc. - Debt Restructuring Plan

L. Goodhue reported that management is recommending that Pennichuck Water Works issue taxable or tax-exempt bonds of up to \$75 million to fund: (a) the refinancing of the currently outstanding balances of the 2014 Series A and 2015 Series A&B bonds; (b) the refinancing of the \$2.4 million note payable to American United Life Insurance which has a current interest rate of 7.4%; (c) the financing of \$5.5 million to refill the Rate Stabilization Fund; and (d) the cost of issuance for the bonds. This financing would eliminate the current bullet maturity obligation of the AULI note and replace with a lower interest rate; refill the Rate Stabilization Fund to its imprest level; and provide necessary cash flow savings to establish the proposed Material Operating Expense Supplement (MOES) in the current rate case. L. Goodhue answered several questions regarding the debt restructuring plan from the Board members. After discussion, the Board gave their approval to proceed. It was agreed by the Board that this matter will be voted on by the Pennichuck Water Works Board of Directors at their meeting later today."

In Witness Whereof, I have hereunto set my hand this 21st day of April, 2020.

Suzanne L. Ansara Corporate Secretary

LDG Exibit 2

From: James Key-Wallace <<u>jameskw@nhbfa.com</u>> Sent: Tuesday, June 23, 2020 12:58 PM To: Goodhue, Larry <<u>larry.goodhue@PENNICHUCK.com</u>> Subject: [EXTERNAL] Confirmation of BFA Board Approval

Good afternoon Larry,

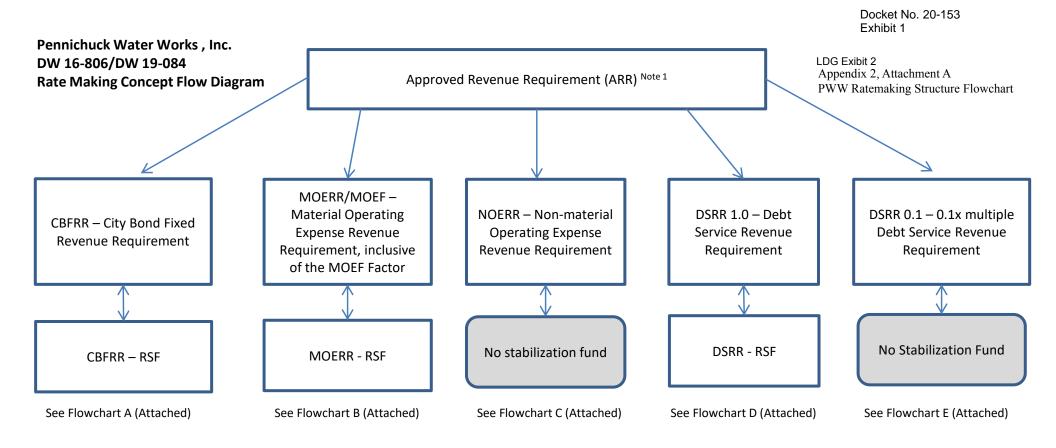
This email is to confirm that on May 18th, 2020 the BFA board of directors unanimously approved the issuance of up to \$75,000,000 in bonds for Pennichuck. As always, final issuance is contingent on approval by the NH Governor and Council (G&C).

The G&C meeting to provide final approval for this bond issuance is on June 24th, 2020 at 10am, and we anticipate an approval. The G&C has always been supportive of the BFA's bond issuances, especially for Pennichuck.

Feel free to reach out if you need any additional information and I'd be happy to provide it.

Regards,

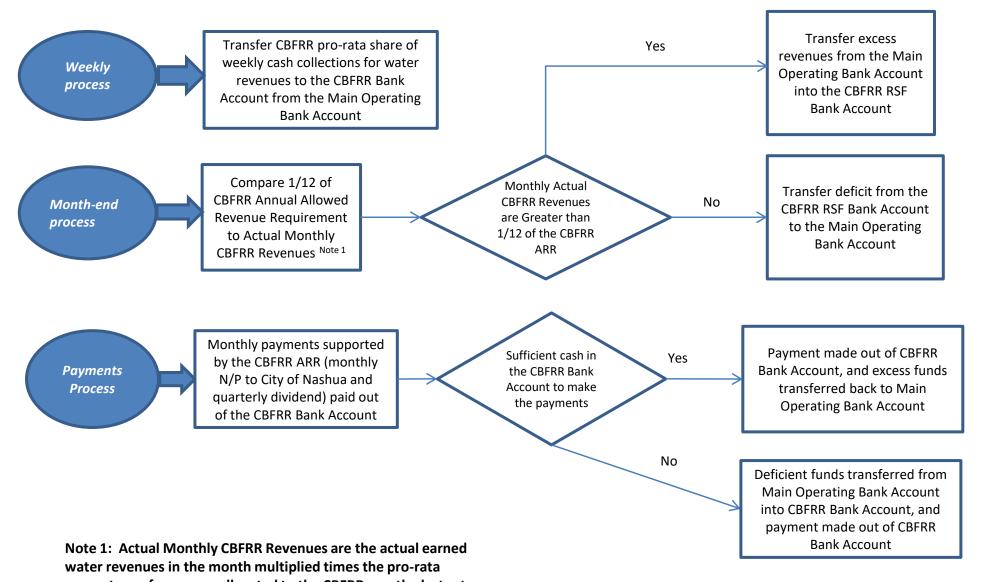
James Key-Wallace Executive Director NH Business Finance Authority 2 Pillsbury Street, Suite 201 Concord, NH 03301 603-415-0191 jameskw@nhbfa.com



Note 1 – The Approved Revenue Requirement equals the annual revenue requirement established at the most recent rate case, adjusted annually on or about April 1st (effective date for inclusion/recoupment of the most recently approved annual QCPAC Surcharge), and "trued up" to the actual approved amounts as of the issuance of the QCPAC surcharge increase order. This ARR is divided amongst the component Revenue Requirement items, inclusive of the annual QCPAC increase allocated amounts, into the identified CBFRR, MOERR/MOEF, NOERR, DSRR-1.0 and DSRR 0.1 revenue "buckets."

Pennichuck Water Works , Inc. - DW 16-806/DW 19-084 Rate Making Concept Flow Diagram - Flowchart A

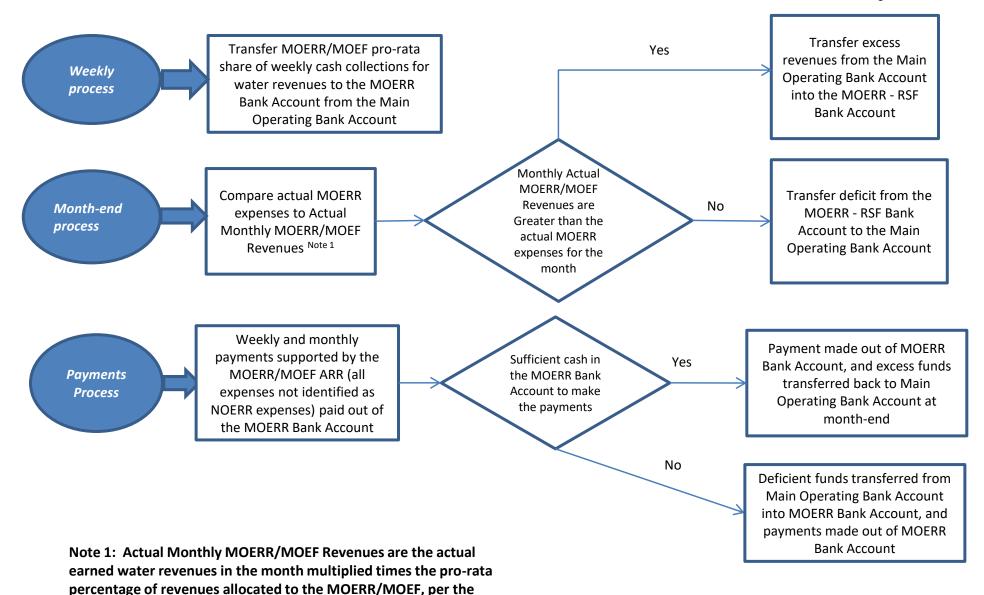
LDG Exibit 2 Appendix 2, Attachment A PWW Ratemaking Structure Flowchart



percentage of revenues allocated to the CBFRR, per the last rate case, inclusive of the annual QCPAC increase.

Pennichuck Water Works , Inc. - DW 16-806/DW 19-084 Rate Making Concept Flow Diagram - Flowchart B

LDG Exibit 2 Appendix 2, Attachment A PWW Ratemaking Structure Flowchart

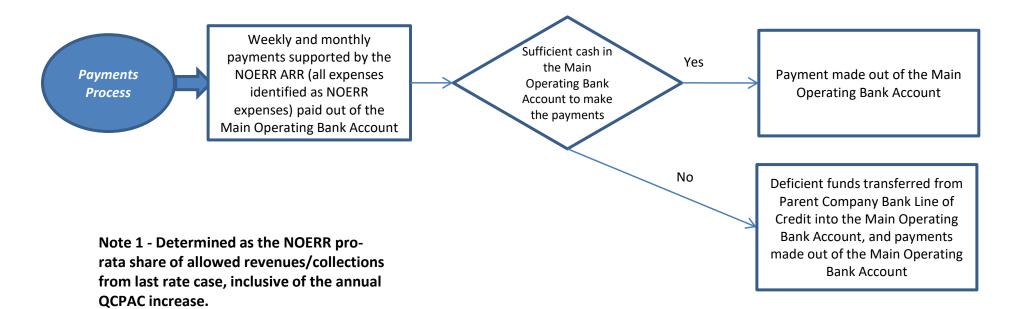


last rate case, inclusive of the annual QCPAC increase.

LDG Exibit 2 Appendix 2, Attachment A PWW Ratemaking Structure Flowchart

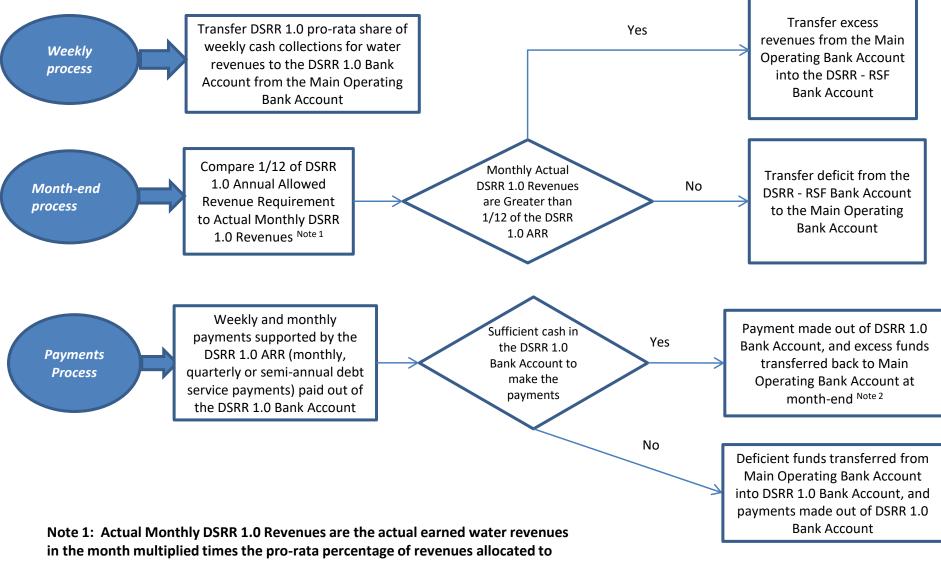
Pennichuck Water Works , Inc. - DW 16-806/DW 19-084 Rate Making Concept Flow Diagram - Flowchart C





Pennichuck Water Works , Inc. - DW 16-806/DW 19-084 Rate Making Concept Flow Diagram - Flowchart D

LDG Exibit 2 Appendix 2, Attachment A PWW Ratemaking Structure Flowchart

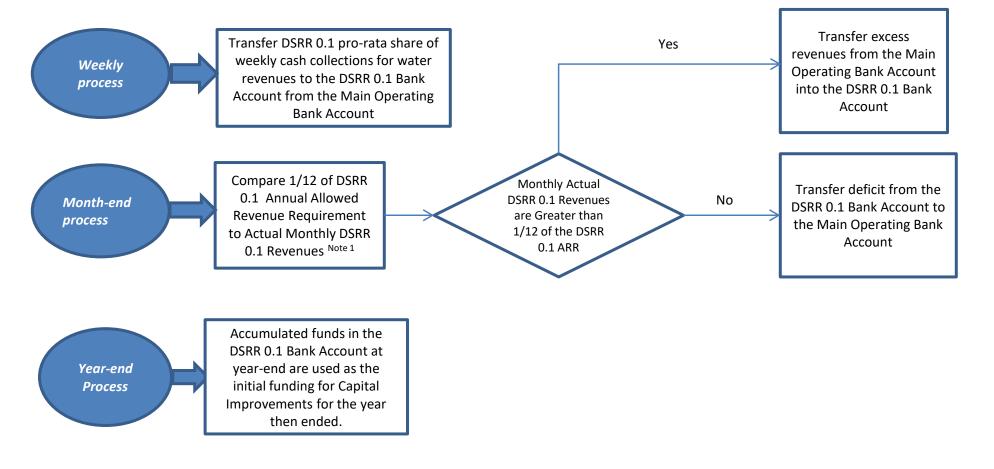


the DSRR 1.0, per the last rate case, inclusive of the annual QCPAC increase.

Note 2: Adequacy of funds in the DSRR Bank Account each month will be determined as 100% of monthly payment obligations, 33 1/3% of quarterly payment obligations and 1/12 of the annual debt service for semi-annual payment obligations.

Pennichuck Water Works , Inc. - DW 16-806/DW 19-084 Rate Making Concept Flow Diagram - Flowchart E

LDG Exibit 2 Appendix 2, Attachment A PWW Ratemaking Structure Flowchart



Note 1: Actual Monthly DSRR 0.1 Revenues are the actual earned water revenues in the month multiplied times the pro-rata percentage of revenues allocated to the DSRR 0.1, per the last rate case, inclusive of the annual QCPAC increase.

Pennichuck Water Works , Inc. - DW 16-806/DW 19-084 Definition of Terms

LDG Exibit 2 Appendix 2, Attachment A PWW Ratemaking Structure Flowchart

- **Approved Revenue Requirement**: equals the annual revenue requirement established at the most recent rate case, adjusted annually on or about April 1st and "trued up" to the actual approved amounts as of the issuance of the QCPAC annual surcharge increase order (the QCPAC shall become eligible for annual recoupment from the date for which bonded debt or other financing that is incurred with respect to the specific eligible projects is issued or consummated, anticipated to be approximately April 1 of each year). This ARR is divided amongst the component Revenue Requirement items, inclusive of the annual QCPAC surcharge increase allocated amounts, into the identified CBFRR, OERR and DSRR revenue "buckets."
- Actual Revenues and Actual Expenses: In all cases with regards to the flowcharts and processes included on Flowcharts A thru E, Actual Revenues and Actual Expenses are on a GAAP basis, inclusive of accrued amounts.
- **CBFRR RSF**: Same as the former RSF as authorized and described in DW 11-026 and reaffirmed in DW 16-806. Allows for the maintenance of stable water utility rates, while providing a mechanism to ensure the Company's ability to meet its obligations under the promissory note to the City.
- **MOERR RSF**: Funds used to provide cash flow for allowable expenses, defined as PWW's Operation and Maintenance Expenses (less those in the NOERR), Property Tax Expense, Payroll Tax Expense, and Amortization Expense.
- **MOEF and MOERR/MOEF:** The MOEF is a factor embedded in the calculation of overall allowed revenues allocated to the MOERR portion of those revenues from the Company's last rate case. This factor is included in the pro-rata allocation of allowed revenues by multiplying the allowed MOERR portion of the OERR revenues by a factor inclusive of the allowed MOEF. It calculated as:
 - (MOERR allowed revenues) x (1+MOEF) = MOERR/MOEF allowed revenues.
- **NOERR**: Funds expenses that are potentially imprudent expenditures within the context of a rate proceeding. The categorization of an expense item in the NOERR does not preclude PWW's recovery of such in rates, as long as that expense item is found to be prudently incurred within the pro forma test year. They may not, however, be included in any use of or replenishment from the MOERR RSF.
- **DSRR-1.0 RSF**: used to support the payments related to the principal and interest obligations for PWW, in existence as of the most recent rate case test year. The establishment of this DSRR-1.0 RSF bucket is to allow the collection of revenues sufficient to pay the principal and interest of PWW's debt and to satisfy the debt service coverage ratio requirements of PWW's bond financings and Pennichuck Corporation's covenant requirements of its line of credit, which is used by Pennichuck Corporation and its subsidiaries as a "back stop" to short-term working capital needs.
- **DSRR-0.1**: The intended purposes for the establishment of the DSRR-0.1 are 1) to allow for the collection of revenues sufficient to satisfy the debt service coverage ratio requirements of PWW's bond financings and Pennichuck Corporation's covenant requirements for its line of credit, which is used by Pennichuck Corporation and its subsidiaries as a "back stop" for short-term capital needs; and 2) to allow PWW to collect revenues over-and-above its actual debt service in order to comply with cash flow coverage requirements which are typical for such financings as well as to meet obligations on new debt incurred between rate filings as supported by the annual QCPAC surcharge.

DLW Exhibit 1

2020 -

2021 -2022 - Calculation of MOER RSF Increases Over 2019 Revenue Shortfall

619,269 \$

Totals - \$

1,257,026 \$ 1,913,917 \$ 3,790,212 \$ 396,878 396,821 396,762

1,190,462

4,980,674

Appendix 2 - Attachment B MOEF Financial Model

Agjusteo per start #1.00.2/21/2020 Revised 4/19/2020 to reflect Staff DR 4's Revised 4/9/2020 to reflect Staff Tech 4's 3.67 TIC Revised 5/20/2020 to reflect tech session and correction of NOERR expenses; Rev 5/26/20	Pro forma Reven	5 Year Average 201 ue Requirement ¹ - nse Contingency -		applies against Material	Operating Expenses		Appen	dix 2 - Attac	hment B MOEF Financial Model
		CBFRR	Material Operating Expense Revenue Requirement (MOERR)	Operating Expense Revenue Requirment (NOERR) ⁶	1.0 Debt Service Revenue Requirement (1.0 DSRR) ¹	0.1 Debt Service Reveue Requirement (0.1 DSRR)	Total RSF Funds Required	Available RSF funds on 12/31/2019	
	Revenue Requirement ² - \$	7,729,032	\$ 20,741,272	\$ 555,346	\$ 6,032,257	\$ 603,226		\$ (1,613,608)	
	Percentage of Revenues -	21.67%	58.16%	1.56%		1.69%			
	1 Year coverage - \$	148,602			\$ 115,979				
	2 Year coverage - \$	297,204			\$ 231,958				
Annual Operating Expense increases @ 3.00%	3 Years coverage - \$	445,806			\$ 347,937	ş -			
	Calculated Rate Stabilization Fund by Revenue Category for 1 year ^{3,4,9} - \$	160,000			\$ 130,000		\$ 1,410,000		
	Calculated Rate Stabilization Fund by Revenue Category for 2 year ^{3,4,9} - \$	330,000	\$ 2,940,000		\$ 260,000		\$ 3,530,000		
	Calculated Rate Stabilization Fund by Revenue Category for 3 years ^{3,4,9} - \$	490,000	\$ 5,480,000	No Stabilization Fund	\$ 380,000	No Stabilization Fund	\$ 6,350,000		
	Requested Rate Stabiliation Fund levels ⁸ - \$	680,000	\$ 2,850,000		\$ 390,000		\$ 3,920,000	\$ 5,533,608	Required Catch up
	Based on largest variance from five year ave of -	3.40%							As a "one time" borrowed amount
									to refill the RSF funds awating implementation of the MOES

	2013 PWW Billed	2014 PWW Billed	2015 PWW Billed	2017 PWW Billed	2018 PWW Billed	
Revenue Type	Revenue	Revenue	Revenue	Revenue	Revenue	
Total Volumetric Charges, includes Unbilled water sales, Unbilled/and Billed Recoupment and abatements	\$ 15,093,982	\$ 15,340,557	\$ 16,357,423	\$ 15,457,194	\$ 17,516,995	
Total Meter Charge (fixed) includes fixed portion of special contracts	\$ 8,162,854	\$ 8,243,956	\$ 8,429,316	\$ 8,766,739	\$ 9,437,913	
WICA/QCPAC revenues	\$-	\$ 109,727	\$ 367,548	\$ 705,661	\$ 362,159	
Total Private Fire Protection Charges (fixed)	\$ 1,027,245	\$ 1,039,276	\$ 1,058,281	\$ 1,089,205	\$ 1,210,960	
Total Municipal Fire Proection Charges (fixed)	\$ 3,047,037	\$ 3,060,346	\$ 3,075,100	\$ 3,116,640	\$ 3,442,774	
Total Billed Revenue	\$ 27,331,118	\$ 27,793,862	\$ 29,287,668	\$ 29,135,439	\$ 31,970,800	
% of Revenues that are variable	55.2%	55.4%	56.6%	54.4%	55.4%	
% of Revenues that are fixed	44.8%	44.6%	43.4%	45.6%	44.6%	

56.56%

Maximum percentage of revenues that were variable during the previ	ious 5 years -

Rate Stabilization Fund Calculations Revised 1/24/2020 per Staff Tech DR2's Resubmitted 2/7/2020 per Staff 3-1

Adjusted per Staff 4-1 on 2/21/2020

	2013 PWW Actual	T	2014 PWW Actual	2015 PWW Actual	2017 PWW Actual	2018 PWW Actual
Expense Type	Variable Expenses		Variable Expenses	Variable Expenses	Variable Expenses	Variable Expenses
Purchased Water	\$ 415,331	\$	393,060	\$ 462,177	\$ 437,664	\$ 472,407
Electric	\$ 873,619	\$	898,211	\$ 1,164,461	\$ 1,053,878	\$ 1,152,305
Chemicals	\$ 659,914	\$	696,650	\$ 668,919	\$ 765,438	\$ 908,982
Sludge Disposal	\$ 246,601	\$	303,057	\$ 316,654	\$ 385,873	\$ 378,140
Total Variable Costs	\$ 2,195,465	\$	2,290,978	\$ 2,612,211	\$ 2,642,853	\$ 2,911,834
Variable Expenses as a Percent of Total Revenues	8.09	6	8.2%	8.9%	9.1%	9.1%

		2013 PWW Actual	2	2014 PWW Actual		2015 PWW Actual	2017 PWW Actual			018 PWW Actual
	Ор	Operating Expenses ¹⁰		perating Expenses ¹⁰	0	perating Expenses ¹⁰	•	Operating Expenses ¹⁰	Ор	erating Expenses ¹⁰
Production Expenses	\$	3,866,154	\$	4,099,167	\$	4,515,441	\$	4,571,844	\$	5,074,509
T&D expenses	\$	1,547,952	\$	1,868,516	\$	1,858,477	\$	2,168,076	\$	2,848,339
Engineering Expenses	\$	833,292	\$	964,081	\$	1,065,646	\$	1,169,359	\$	1,287,747
Customer Acct & Collection Expenses	\$	436,393	\$	442,289	\$	463,937	\$	447,889	\$	489,789
Admin and General Expenses	\$	6,677,427	\$	6,000,562	\$	6,364,880	\$	7,303,584	\$	7,580,371
Inter Div Mgt Fee Expense	\$	(2,254,305)	\$	(2,270,498)	\$	(2,378,932)	\$	(3,321,124)	\$	(3,288,063)
Amortization Expense ¹¹	\$	48,059	\$	140,811	\$	167,776	\$	145,441	\$	134,666
Property Tax Expense	Ś	4,123,297	Ś	4,468,936	Ś	4,617,857	Ś	5,210,697	\$	4,438,775
Payroll Tax Expense	Ý	4,125,257	Ŷ	4,400,550	Ŷ	4,017,057	Ŷ	5,210,057	\$	698,087
Cash Tax Expense ¹²	\$	99,000	\$	100,000	\$	101,000	\$	103,000	\$	103,249
Total Material Operating Expense	\$	15,377,269	\$	15,813,864	\$	16,776,082	\$	17,798,766	\$	19,367,469
Percent increase in operationg expenses over the prior year				2.84%		6.08%		3.05%		8.81%
						Tot	tal	increase over 5 years -		25.95%
				,	Ave	. increase per year (inc	lu	sive of compounding) -		4.72%

				2017 Actual CCF's sold by	
	by PWW	by PWW	by PWW	PWW	by PWW
Annual Metered Sales (CCF)	4,948,775	4,988,184	5,349,169	5,056,592	5,242,264
Percentage Variance between Current and High Consumption Year	-8.09%	-7.24%	0.00%	-5.79%	-2.04%

Average Consumption (CCF) over the past five years (replacing 2016 with 2013) 5,116,997 Variance between current and 5 Yr Ave Consumption -3.40%	-2.58% 4.34%	-1.19%	2.39%	Append	ix 2 - Attachment B MOEF	Financial Model
Largest percentage reduction in volumetric sales at PWW of	3.40% over the past five years from	the five year average of yolu	metric sales excluding 2016, in	ncluding 2013		
Results in a Revenue loss of based on 5 year average sales less 2016, including 2013 \$ 636,621	based on current permanent rate of \$	3.66 per CC				
Results in an Operating Expense reduction of \$ 98,981 I Results in an Operating Income reduction of \$ 537,640	based on 2018 variable operating expenses					
Results in an operating income reduction of \$ 537,640						
Notes:						
Based on Debt Service Multiplier of 1.10 per Sch A of 1604.06 schedules Revenue requirements per Sch A Perm-Modified of 1604.06 schedules						
	safety factor					
	based on % of PWW revenues (2012 Case) to % of all	three regulated utilities reven	nues (2012 Cases) or	\$ 3,920,000		
5. Calculation of RSF Pecentage based on Revenue requirements from DW13-126, 13-128 and 13-130						
PWW Revenue Requirment -						
PEU Revenue Requirement -						
PAC Revenue Requirement - = Total Utility Revenue Requirement -		reement				
	ç 53,547,601					
6. For Calculation of Operating Expense Requirement see Exhibit 1.1						
 Inclusive of pro forma to Hudson and Pennichuck East Usage due to the PWW-PEU interconnect - See 1604.06 Schedule 1C Request rate stabilization fund levels based on multiple years of coverage for the MOERR and 1.0 DSRR RSF, and to re-establish all RSF funds to 	their imprest levels as determined and approved under	er DW 16-806.				
9. WICA/QCPAC revenues are divided between variable and fixed revenues based on the ratio between those revenues without the WICA/QCPAC Revenues per year as follow		Year		riable		
		2013		5.2%		
		2014 2015		5.4% 6.6%		
		2017	45.6% 5	4.4%		
10. Actual year auditted expenses, including non material operating expenses		2018	44.6% 5	5.4%		
10. Accusal year adulted expenses, including non-material operating expenses 11. Amortization expenses for 2013, 2014, 2015 and 2017 as provided by NHPUC Staff						
12. Cash tax expenses is estimated for 2013, 2014, 2015 and 2017						
	RR RSF Balance Analysis - Increased operating expenses on	h.				
WUE						
Auditted	12/31/2017 MOERR RSF Balance \$	2,620,152				
Auditted	2018 MOERR Revenues \$	16,699,145				
Auditted	2018 MOERR Expenses \$	18,759,594				
Auditted	12/31/2018 MOERR RSF Balance \$	559,703				
Based on unauditted PWW 2019 Year End Revenues	2019 MOERR Revenues \$	16,360,684				
Based on unauditted PWW 2019 Year End Expenses	2019 MOERR Expenses \$	20,293,262				
Based on unauditted PWW 2019 Year End Revenues and Expenses	12/31/2019 MOERR RSF Balance \$	(3,372,875)				
Amount Subject to Current Rate Case Order Based on current Rate Case filing schedules with full year of approved MOERR per Cell F13 above per 1604.04 Sch A. This \$\$ amount is less the NOERR and multiplied by	Replenish MOERR RSF \$	2,850,000 to desir	red value			
the proposed MOERR Continegency Factor plus 75% of property taxes associated with taxable 2019 Capex	2020 MOERR Revenues \$	21,050,287 Assume	es full year at requested 19-084 r	rates plus recoupment to 9 months of 2019 QCPAC @)	3.83%
MOES requested in DW19-084 plus operating expense increase of 3% in 2020 plus increase in 2020 property taxes associated with 2019 QCP's	2020 Material Operating Expenses \$	20,494,081				
	12/31/2020 MOERR RSF Balance \$	3,406,206				
Based on current Rate Case filing MOERR per Cell F13 above. This \$\$ amount plus 25% of property taxes associated with taxable 2019 assets plus 75% of property taxes associated with taxable 2019 and 2020 Capex	2021 MOERR Revenues \$	21,332,446 Assum	es 3 months of 2019 QCPAC plus	9 months of 2020 QCPAC @	6.46%	
MOES requested in DW19-084 plus operating expense increases of 3% per year for 2020 and 2021 plus property taxes on 2019 and 2020 QCP's	2021 Material Operating Expenses \$	21,335,416				
	12/31/2021 MOERR RSF Balance \$	3,403,236				
Based on current Rate Case filing MOERR per Cell F13 above. This \$\$ amount plus 25% of property taxes associated with taxable 2019 and 2020 assets plus 75% of property taxes associated with taxable 2019, 2020 and 2021 Capex	2022 MOERR Revenues \$	21,602,875 Assum	es 3 months of 2020 QCPAC plus	9 months of 2021 QCPAC @	10.13%	
MOES requested in DW19-084 plus operating expense increases of 3% per year for 2020, 2021 and 2022 plus property taxes on 2019, 2020 and 2021 QCP's	2022 Material Operating Expenses \$	22,236,898				
	12/31/2022 MOERR RSF Balance \$	2,769,212				
Based on 2022 MOE times allowed MOES factor plus 9 months of 2022 property taxes related 2021 QCP's	2023 MOERR Revenues \$	24,598,183 Assume	es full year at requested 22-xxx ra	ates plus recoupment to 9 months of 2022 QCPAC		3%
MOES requested in DW22-xx plus operating expense increase of 3% in 2023 plus increase in 2023 property taxes associated with 2022 QCP's	2023 Material Operating Expenses \$	23,235,712				
	12/31/2023 MOERR RSF Balance \$	4,131,684				

Pennichuck Water Works, Inc. Accounts Excluded From MOERR DW 19-084 Revised per Staff DR 2-37; Rev 5/26/20

LDG Exibit 2 Appendix 2 - Attachment B MOEF Financial Model

(1)

Test Year

														_	2018 Totals
921002	SENIOR MANAGEMENT VEHICLES	165.33	-	154.01	199.91	1,462.15	563.18	136.13	202.31	-	259.43	231.32	-	3,373.77	3,373.77
921003	SENIOR MGMT - FUEL PURCHASED	268.27	290.78	581.48	292.31	-	29.40	460.43	518.38	478.78	401.56	412.62	352.66	4,086.67	4,086.67
921004	SENIOR MGMT-VEH REGISTRATION	-	-	-	-	-	-	-	-	990.60	-	-	-	990.60	990.60
923000	OUTSIDE SERVICES	26,089.44	52,203.05	18,573.97	35,287.99	39,854.29	44,858.22	23,959.26	20,603.55	22,444.81	47,134.61	24,067.78	30,282.72	385,359.69	385,359.69
926001	OFFICER'S LIFE INSURANCE	386.19	386.19	386.19	386.19	386.19	386.19	386.19	386.19	2,055.19	386.19	386.19	386.19	6,303.28	6,303.28
926500	MISC EMPLOYEE BENEFITS	4,364.64	1,732.33	1,830.57	1,310.04	365.44	2,627.19	720.54	(7,570.39)	1,452.24	1,883.76	2,924.33	(2,881.77)	8,758.92	8,758.92
926501	MISC EMPLOYEE BENEFITS-WELLNESS	-	-	630.70	(1,105.00)	6,715.00	(1,056.52)	(282.08)	(2,770.73)	853.41	(1,109.16)	10.00	1,485.76	3,371.38	3,371.38
926502	MISC EMPLOYEE BENEFITS-ACTIVITIES	-	-	-	-	-	-	-	948.43	354.49	3,102.63	2,500.00	4,768.88	11,674.43	11,674.43
926505	EMPLOYEE RELATIONS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
926600	TUITION REIMBURSEMENTS	6,510.00	-	2,972.84	-	4,088.37	976.85	3,801.00	-	99.70	5,642.87	1,476.90	6,677.77	32,246.30	32,246.30
926610	TRAINING EDUCATIONAL SEMINARS	1,180.00	1,305.00	-	4,016.34	708.00	2,754.50	2,383.98	280.00	11,188.41	19,877.43	606.45	6,667.33	50,967.44	50,967.44
930100	MEETINGS & CONVENTIONS	915.00	5,299.70	5,343.92	5,644.97	526.53	273.33	908.96	33.33	13,381.78	659.00	1,496.66	841.61	35,324.79	35,324.79
930101	MEMBERSHIPS	3,833.91	3,698.91	139.98	4,262.29	3,829.66	3,857.62	2,463.42	3,159.92	2,524.71	2,042.72	3,308.76	2,467.63	35,589.53	35,589.53
930200	PUBLIC RELATIONS	-	429.65	913.96	2,681.64	5,989.22	13,011.91	887.53	535.24	-	443.57	372.60	359.64	25,624.96	25,624.96
930300	MEALS	390.09	610.33	398.83	282.21	411.20	147.01	291.72	396.51	122.94	742.99	382.58	26.93	4,203.34	4,203.34
930410	CHARITABLE CONTRIBUTIONS	-	-	-	-	-	-	-	-	-	-	-	-		-
											Тс	otal of Non RS	F backed O&M	I Expenses -	607,875.10

Adjustment to NOERR expenses per Staff DR's 2-12, 2-30 and 3-5 - 52,529.00

Proforma 2018 NOERR expenses - 555,346.10

DLW Exhibit 1

2020 -

2021 -

2022

Calculation of MOER RSF Increases Over 2019 Revenue Shortfall

390,160

390,103

390,044

1,170,306

4,896,352

608,786

1,235,746 \$

1,881,515 \$

3,726,046 \$

Totals - \$

LDG Exibit 2 Appendix 2 - Attachment B MOEF Financial Model

Resubmitted 2/7/2020 per Staff 3-1 Adjusted per Staff 4-1 on 2/21/2020 Revised 4/1/2020 to reflect Staff DR 4's Revised 4/9/2020 to reflect Staff Tech 4's 4.67 TIC Revised 5/20/2020 to refflect tech session and correction of	PWW Profor	ma 5 Year Average 2018 Test Year with MOI	is	Appendix 2 - Attachment B MOEF Financial Mo
NOERR expenses; Rev 5/27/20	Pro forma Rev	enue Requirement ¹ - \$ 35,839,46		
			% applies against Material Operating Expenses	
		Material Operating Expense Revenue CBFRR Requirement (MOERF	Operating Expense 1.0 Debt Service Revenue Requirment Revenue Requirement 0.1 Debt Service Reveur) (NOERR) ⁶ (1.0 DSRR) ¹ Requirement (0.1 DSRR	
	Revenue Requirement ² - \$	7,729,032 \$ 20,391,83		
	Percentage of Revenues -	21.57% 56.90		%
	1 Year coverage - \$	148,602 \$ 998,94		
Annual Operating Expense increases @ 3.00%	2 Year coverage - \$ 3 Years coverage - \$	297,204 \$ 2,624,79 445,806 \$ 4,896,35		
	Calculated Rate Stabilization Fund by Revenue Category for 1 year ^{3,4,9} - \$	160,000 \$ 1,100,00		\$ 1,400,000
	Calculated Rate Stabilization Fund by Revenue Category for 2 year ^{3,4,9} - \$	330,000 \$ 2,890,00		\$ 3,500,000
	Calculated Rate Stabilization Fund by Revenue Category for 3 years 3,4,9 - \$	490,000 \$ 5,390,00	No Stabilization Fund \$ 410,000 No Stabilization Fund	\$ 6,290,000
	Requested Rate Stabiliation Fund levels ⁸ - \$	680,000 \$ 2,850,00	\$ 390,000	\$ 3,920,000 \$ 4,884,545 Required Catch up
	Based on largest variance from five year ave of -	3.40%		As a "one time" borrowed amount
				to refill the RSF funds awating implementation of the MOES

	2013 PWW Billed	2014 PWW Billed	2015 PWW Billed	2017 PWW Billed	2018 PWW Billed
Revenue Type	Revenue	Revenue	Revenue	Revenue	Revenue
Total Volumetric Charges, includes Unbilled water sales, Unbilled/and Billed Recoupment and abatements	\$ 15,093,982	\$ 15,340,557	\$ 16,357,423	\$ 15,457,194	\$ 17,516,995
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Total Billed Revenue	\$ 27,331,118	\$ 27,793,862	\$ 29,287,668	\$ 29,135,439	\$ 31,970,800
% of Revenues that are variable	55.2%	55.4%	56.6%	54.4%	55.4%
% of Revenues that are fixed	44.8%	44.6%	43.4%	45.6%	44.6%

56.56%

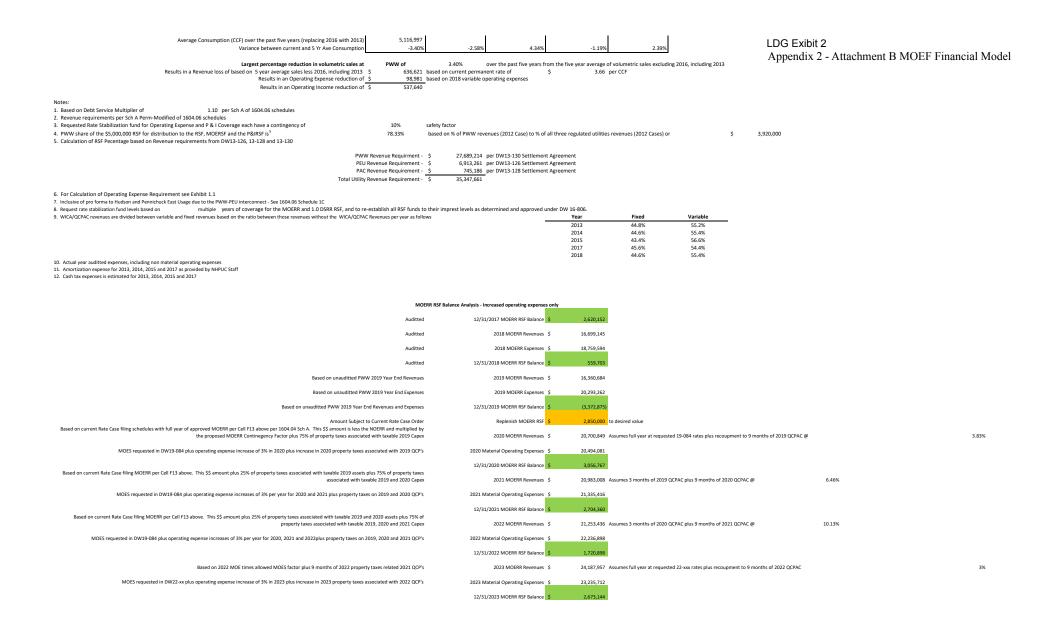
Maximum percentage of revenues that were variable during the previous 5 years -

Rate Stabilization Fund Calculations Revised 1/24/2020 per Staff Tech DR2's Resubmitted 2/7/2020 per Staff 3-1

	2013 PWW Actual			2017 PWW Actual	2018 PWW Actual	
Expense Type	Variable Expenses					
Purchased Water	\$ 415,331	\$ 393,060	\$ 462,177	\$ 437,664	\$ 472,407	
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Sludge Disposal	\$ 246,601	\$ 303,057	\$ 316,654	\$ 385,873	\$ 378,140	
Total Variable Costs	\$ 2,195,465	\$ 2,290,978	\$ 2,612,211	\$ 2,642,853	\$ 2,911,834	
Variable Expenses as a Percent of Total Revenues	8.0%	6 8.2%	8.9%	9.1%	9.1%	

	2013 PWW Actua		2014 PWW Actual		2015 PWW Actual		2017 PWW Actual		2018 PWW Actual	
	Operating Expenses ¹⁰		Operating Expenses ¹⁰		Operating Expenses ¹⁰		Operating Expenses ¹⁰		perating Expenses ¹⁰	
Production Expenses	\$ 3,866,	54 \$	4,099,167	\$	4,515,441	\$	4,571,844	\$	5,074,509	
T&D expenses	\$ 1,547,9	952 \$	1,868,516	\$	1,858,477	\$	2,168,076	\$	2,848,339	
Engineering Expenses	\$ 833,3	92 \$	964,081	\$	1,065,646	\$	1,169,359	\$	1,287,747	
Customer Acct & Collection Expenses	\$ 436,3	I93 \$	442,289	\$	463,937	\$	447,889	\$	489,789	
Admin and General Expenses	\$ 6,677,4	27 \$	6,000,562	\$	6,364,880	\$	7,303,584	\$	7,580,371	
Inter Div Mgt Fee Expense	\$ (2,254,3	05) \$	(2,270,498)	\$	(2,378,932)	\$	(3,321,124)	\$	(3,288,063)	
Amortization Expense ¹¹	\$ 48,0)59 \$	140,811	\$	167,776	\$	145,441	\$	134,666	
Property Tax Expense	\$ 4,123,2	97 \$	4,468,936	Ś	4,617,857	Ś	5,210,697	\$	4,438,775	
Payroll Tax Expense	. , ,	<i></i> ,	4,400,550	Ŷ	4,017,057	Ŷ	5,210,057	\$	698,087	
Cash Tax Expense ¹²	\$ 99,0	00 \$	100,000	\$	101,000	\$	103,000	\$	103,249	
Total Material Operating Expense	\$ 15,377,3	69 \$	15,813,864	\$	16,776,082	\$	17,798,766	\$	19,367,469	
Percent increase in operationg expenses over the prior year			2.84%		6.08%		3.05%		8.81%	
					Tot	tal	increase over 5 years -		25.95%	
			,	Ave	. increase per year (inc	clu	sive of compounding) -		4.72%	

				2017 Actual CCF's sold by	
	by PWW	by PWW	by PWW	PWW	by PWW
Annual Metered Sales (CCF)	4,948,775	4,988,184	5,349,169	5,056,592	5,242,264
Percentage Variance between Current and High Consumption Year	-8.09%	-7.24%	0.00%	-5.79%	-2.04%



Appendix 2 - Attachment B MOEF Financial Model

Pennichuck Water Works, Inc. Accounts Excluded From MOERR DW 19-084 Revised per Staff DR 2-37; Rev 5/27/20

(1)

Test Year

														_	2018 Totals
921002	SENIOR MANAGEMENT VEHICLES	165.33	-	154.01	199.91	1,462.15	563.18	136.13	202.31	-	259.43	231.32	-	3,373.77	3,373.77
921003	SENIOR MGMT - FUEL PURCHASED	268.27	290.78	581.48	292.31	-	29.40	460.43	518.38	478.78	401.56	412.62	352.66	4,086.67	4,086.67
921004	SENIOR MGMT-VEH REGISTRATION	-	-	-	-	-	-	-	-	990.60	-	-	-	990.60	990.60
923000	OUTSIDE SERVICES	26,089.44	52,203.05	18,573.97	35,287.99	39,854.29	44,858.22	23,959.26	20,603.55	22,444.81	47,134.61	24,067.78	30,282.72	385,359.69	385,359.69
926001	OFFICER'S LIFE INSURANCE	386.19	386.19	386.19	386.19	386.19	386.19	386.19	386.19	2,055.19	386.19	386.19	386.19	6,303.28	6,303.28
926500	MISC EMPLOYEE BENEFITS	4,364.64	1,732.33	1,830.57	1,310.04	365.44	2,627.19	720.54	(7,570.39)	1,452.24	1,883.76	2,924.33	(2,881.77)	8,758.92	8,758.92
926501	MISC EMPLOYEE BENEFITS-WELLNESS	-	-	630.70	(1,105.00)	6,715.00	(1,056.52)	(282.08)	(2,770.73)	853.41	(1,109.16)	10.00	1,485.76	3,371.38	3,371.38
926502	MISC EMPLOYEE BENEFITS-ACTIVITIES	-	-	-	-	-	-	-	948.43	354.49	3,102.63	2,500.00	4,768.88	11,674.43	11,674.43
926505	EMPLOYEE RELATIONS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
926600	TUITION REIMBURSEMENTS	6,510.00	-	2,972.84	-	4,088.37	976.85	3,801.00	-	99.70	5,642.87	1,476.90	6,677.77	32,246.30	32,246.30
926610	TRAINING EDUCATIONAL SEMINARS	1,180.00	1,305.00	-	4,016.34	708.00	2,754.50	2,383.98	280.00	11,188.41	19,877.43	606.45	6,667.33	50,967.44	50,967.44
930100	MEETINGS & CONVENTIONS	915.00	5,299.70	5,343.92	5,644.97	526.53	273.33	908.96	33.33	13,381.78	659.00	1,496.66	841.61	35,324.79	35,324.79
930101	MEMBERSHIPS	3,833.91	3,698.91	139.98	4,262.29	3,829.66	3,857.62	2,463.42	3,159.92	2,524.71	2,042.72	3,308.76	2,467.63	35,589.53	35,589.53
930200	PUBLIC RELATIONS	-	429.65	913.96	2,681.64	5,989.22	13,011.91	887.53	535.24	-	443.57	372.60	359.64	25,624.96	25,624.96
930300	MEALS	390.09	610.33	398.83	282.21	411.20	147.01	291.72	396.51	122.94	742.99	382.58	26.93	4,203.34	4,203.34
930410	CHARITABLE CONTRIBUTIONS	-	-	-	-	-	-	-	-	-	-	-	-		-
	Total of Non RSF backed O&M Expenses -								I Expenses -	607,875.10					

Adjustment to NOERR expenses per Staff DR's 2-12, 2-30 and 3-5 - 52,529.00

Proforma 2018 NOERR expenses - 555,346.10

LDG Exibit 2

DW 19-084 PENNICHUCK WATER WORKS, INC. SUMMARY - CALCULATION OF REVENUE REQUIREMENT

Appendix 2, Attachment C

	REVENUE	REVENUE REQUIRMENT	PER SETTLEMENT
	REQUIREMENT PER COMPANY'S	ESTIMATED ¹ (DW 20-055 Financing @	MAXIMUM ² (DW 20-055 Financing @
	ORIGINAL FILING	3. <u>67% Total Interest Co</u> st)	4.67% Total Interest Cost)
CITY BOND FIXED REVENUE REQUIREMENT (CBFRR)			
1) City Bond Fixed Revenue Requirement (CBFRR) (Schedule 1)	\$ 7,729,032	\$ 7,729,032	\$ 7,729,032
OPERATING EXPENSE REVENUE REQUIREMENT (OERR) (Schedules 2.1/2.2)			
2) Total Pro Forma Operation & Maintenance Expenses	\$ 14,739,018	\$ 14,581,494	\$ 14,581,494
3) Pro Forma Property Tax Expense	4,547,936	3,968,596	3,968,596
4) Pro Forma Payroll Tax Expense	698,087	698,087	698,087
5) Pro Forma Amortization Expense	415,268	145,720	145,720
6) Pro Forma Income Tax Expense	103,249	103,249	103,249
7) Total Operating Expenses [(2) + (3) + (4) + (5) + (6)]	20,503,558	19,497,146	19,497,146
MATERIAL OPERATING EXPENSE SUPPLEMENT (MOES)			
8) Less: Non-Material Operating Expenses (Schedule 2b)		(555,346)	(555,346)
9) Material Operating Expenses [(7) - (8)]		18,941,800	18,941,800
10) Material Operating Expense Factor (MOEF) per Settlement		x <u>9.50%</u>	x7.66%
11) MOEF Calculated Result [(9) x (10)]		1,799,471	1,450,033
12) Operating Expense Revenue Requirement (OERR) [(7) + (11)]	\$ 20,503,558	\$ 21,296,617	\$ 20,947,179
DEBT SERVICE REVENUE REQUIREMENT (DSRR) (Schedule 3)			
13) Pro Forma Test Year Annual Debt Service	\$ 6,999,023	\$ 7,002,631	\$ 7,002,631
14) Debt Service Coverage Requirement	x <u>1.1</u>	x <u>1.1</u>	x <u>1.1</u>
15) Debt Service Revenue Requirement (DSRR) [(13) x (14)]	7,698,925	7,702,894	7,702,894
16) REVENUE REQUIREMENT BEFORE APPLICATION OF DEBT SERVICE SAVINGS RESULTING FROM DW 20-055 FINANCING [(1) + (12) + (15)]	\$ 35,931,515	\$ 36,728,543	\$ 36,379,105
REDUCTION IN REVENUE REQUIREMENT RESULTING FROM DW 20-055 FINANCING			
The set of the se		(970,374)	(490,585)
18) Debt Service Coverage Requirement		x 1.1	x 1.1
19) Estimated Reduction in Revenue Requirement [(17) x (18)]		(1,067,411)	(539,644)
20) TOTAL PROPOSED REVENUE REQUIREMENT [(16) - (19)]	\$ 35,931,515	\$ 35,661,131	\$ 35,839,461
CALCULATION OF PERCENT INCREASE (DECREASE) IN ANNUAL WATER REVENUES			
21) Total Proposed Revenue Requirement [(20)]	\$ 35,931,515	\$ 35,661,131	\$ 35,839,461
22) Less: Pro Forma Test Year Other Operating Revenues (Schedules 2.1/2.2)	(420,712)	(420,712)	(420,712)
23) Total Proposed Water Revenues from Base Rates [(21) - (22)]	\$ 35,510,803	\$ 35,240,419	\$ 35,418,749
24) Less: Pro Forma Test Year Water Revenues from Base Rates (Schedules 2.1/2.2)	(31,732,664)	(31,649,316)	(31,649,316)
25) Proposed Increase / (Decrease) in Annual Water Revenues from Base Rates [(23) - (24)]	\$ 3,778,139 11.91%	\$ 3,591,103 11.35%	\$ 3,769,433 11.91%
26) Less: Pro Forma Test Year Water Revenues from QCPAC (Schedules 2.1/2.2)	(1,169,488)	(1,248,097)	(1,248,097)
27) Proposed Increase / (Decrease) in Total Annual Water Revenues [(25) - (26)]	\$ 2,608,651 8.22%	\$ 2,343,006 7.40%	\$ 2,521,336 7.97%

Notes: (1) Presented under the scenario whereby the Co's proposed DW 20-055 Financing is issued at the currently estimated 3.67% Total Interest Cost resulting in net annual debt service savings of \$970,374 (Sch 3), thereby enabling the Co to include a MOEF of 9.50% in the MOERR component of its overall revenue requirement, resulting in a revenue increase of 11.35%.

(2) Presented under the scenario whereby the Co's proposed DW 20-055 Financing is issued at an estimated 4.67% Total Interest Cost resulting in net annual debt service savings of \$490,585 (Sch 3), thereby only enabling the Co to include a MOEF of 7.66% in the MOERR component of its overall revenue requirement so as not exceed PWW's originally proposed increase in its revenue requirement of 11.91%.

LDG Exibit 2 Appendix 2, Attachment C

DW 19-084 PENNICHUCK WATER WORKS, INC. SCHEDULE 1 - CALCULATION OF PWW'S SHARE OF CITY BOND FIXED REVENUE REQUIREMENT (CBFRR)

Total City Bond Bond Interest Rate Bond Period	\$	150,570,000 4.09% 30	yrs.
Total City Bond Less Rate Stabilization fund Amount of City Bond to be prorated between Utilities CBFRR PWW Share of CBFRR PWW Prorate share	\$ \$	150,570,000 5,000,000 145,570,000 88.12% 128,282,230	
Add back PWW Pro Rata Share of Rate Stabilization Reserve Total PWW Pro Rata Share for CBFRR/MARA Bond Interest Rate Bond Period PWW CBFRR Requirement	\$	3,920,000 132,202,230 4.09%	yrs.
<u>Notes</u> : Pro Rata Calculation as follows: ⁽¹⁾		<u> </u>	
PWW & Southwood Equity (12/31/2011) ⁽²⁾ PEU Equity (12/31/2011) PAC Equity (12/31/2011)	\$ \$ \$ \$	56,442,675 6,540,063 1,066,353 64,049,091	88.12% 10.21% <u>1.66%</u> 100.00%
Calculation of RSF Pecentage based on Revenue requirements f			3-128 and 13-130
RSF amount funded by City Bond - PWW Revenue Requirment - PEU Revenue Requirement - PAC Revenue Requirement - PWW Share of RSF as a percentage - PWW Share of RSF in \$\$ -	\$ \$ \$ \$ \$	6,913,261	per DW13-130 Settlement Agreement per DW13-126 Settlement Agreement per DW13-128 Settlement Agreement
Distribution of RSF funds to Revenue Requirement RSF's ⁽³⁾ CBFRR RSF MOERR RSF 1.0 DSRR RSF	\$	680,000 2,850,000 390,000 3,920,000	
 (1) Calculations are from DW11-026 (2) Consists of Equity as of 12/31/2011 as follows: PWW Southwood Total (2) DWW (3) DWW (4) DW 			\$ 54,395,626 \$ 2,047,049 \$ 56,442,675
(3) PWW RSF fund levels as established in DW16-806			

Appendix 2, Attachment C

DW 19-084 PENNICHUCK WATER WORKS, INC. SCHEDULE 2.1 - OPERATING INCOME STATEMENT AND DETAILED CALCULATION OF ESTIMATED REVENUE REQUIREMENT

	Compan	y Proposal per Origi	nal Filing		Settlemen	t Proposal	
	(1) Test Year Operating Income	(2) Pro Forma Adj's Per Co's Filing	(3) Pro Forma Operating Income Per Co' Filing (Co's Sch 1)	(4) Adj's per Co Responses to Staff DR's (Sch 2a)	(5) Pro Forma Operating Income Per Settlement	(6) Revenue Increase per Settlement	(7) Revenue Requirement per Settlement
OPERATING REVENUES Revenues from Water Sales: Water Revenues from Base Rates Water Revenues from QCPAC Total Water Revenues from Water Sales Water Sales for Resale Other Operating Revenues Total Operating Revenues	\$ 31,608,641 362,158 31,970,799 3,321 416,551 32,390,671	\$ 124,023 807,330 931,353 <u>840</u> 932,193	\$ 31,732,664 1,169,488 32,902,152 3,321 417,391 33,322,864	\$ (83,348) 78,609 (4,739) (4,739)	\$ 31,649,316 1,248,097 32,897,413 3,321 417,391 33,318,125	\$ 3,591,103 (1,248,097) 2,343,006 2,343,006	\$ 35,240,419 35,240,419 3,321 417,391 35,661,131
OPERATING EXPENSES Operation and Maintenance Expenses: Production Expense Transmission and Distribution Expense Engineering Expense Customer Account and Collection Expense Administrative and General Expense Inter-Division Management Fee Total Operation and Maintenance Expenses	5,074,509 2,848,339 1,287,747 489,789 7,580,371 (3,288,063) 13,992,692	223,378 98,367 11,317 9,700 551,328 (147,764) 746,326	5,297,887 2,946,706 1,299,064 499,489 8,131,699 (3,435,827) 14,739,018	8,300 (25,258) (231,028) 90,462 (157,524)	5,306,187 2,921,448 1,299,064 499,489 7,900,671 (3,345,365) 14,581,494	<u>.</u>	5,306,187 2,921,448 1,299,064 499,489 7,900,671 (3,345,365) 14,581,494
Other Operating Expenses: Property Tax Expense Payroll Tax Expense Gain from Forgiveness of SRF Debt Depreciation Expense Amortization of Acquisition Adjustment Amortization - CIAC Amortization Expense Total Other Operating Expenses	4,438,775 698,087 (59,384) 5,839,694 (27,026) (740,182) 1,965,332 12,115,296	109,161 59,384 (5,839,694) 27,026 740,182 (1,550,064) (6,454,005)	4,547,936 698,087 - - - 415,268 5,661,291	(579,340) (269,548) (848,888)	3,968,596 698,087 - - - - - - - - - - - - - - - - - - -		3,968,596 698,087 - - - - - - - - - - - - - - - - - - -
Income Tax Expense: State Income Tax Expense Federal Income Tax Expense Total Income Tax Expense	794,209 1,592,022 2,386,231	(690,960) (1,592,022) (2,282,982)	103,249 103,249		103,249		103,249 103,249
Total Operating Expenses	28,494,219	(7,990,661)	20,503,558	(1,006,412)	19,497,146		19,497,146
NET OPERATING INCOME	\$ 3,896,452	\$ 8,922,854	\$ 12,819,306	\$ 1,001,673	\$ 13,820,979	\$ 2,343,006	\$ 16,163,985

DW 19-084 PENNICHUCK WATER WORKS, INC. SCHEDULE 2.1 - OPERATING INCOME STATEMENT AND DETAILED CALCULATION OF ESTIMATED REVENUE REQUIREMENT

Appendix 2, Attachment C

CALCULATION OF REVENUE DEFICIENCY AND REQUIRED INCREASE @ AN		SETTLEMENT		REVENUE				
ESTIMATED DW 20-055 FINANCING TOTAL INTEREST COST OF 3.67%:	PER COMPANY	ADJUSTMENTS	PER SETTLEMENT	INCREASE	PRO FORMA			
NET OPERATING INCOME	\$ 12,819,306	\$ 1,001,673	\$ 13,820,979	\$ 2,343,006	\$ 16,163,985			
LESS: MATERIAL OPERATING EXPENSE FACTOR (MOEF) CALCULATION								
TOTAL OPERATING EXPENSES	(20,503,558)	1,006,412	(19,497,146)	-	(19,497,146)			
LESS: NON-MATERIAL OPERATING EXPENSES MATERIAL OPERATING EXPENSES	<u>607,875</u> (19,895,683)	<u>(52,529)</u> 953,883	<u>555,346</u> (18,941,800)		<u>555,346</u> (18,941,800)			
x MATERIAL OPERATING EXPENSE FACTOR (MOEF)	<u>9.50%</u> x	9.50%	x 9.50%	9.50%	x 9.5%			
MOEF CALCULATED RESULT	(1,890,090)	90,619	(1,799,471)	<u> </u>	(1,799,471)			
LESS: CITY BOND FIXED REVENUE REQUIREMENT (CBFRR)	(7,729,032)	<u> </u>	(7,729,032)	<u> </u>	(7,729,032)			
LESS: DEBT SERVICE REVENUE REQUIREMENT (DSRR)								
PRO FORMA DEBT SERVICE	(6,999,023)	(3,608)	(7,002,631)	-	(7,002,631)			
X DEBT COVERAGE REQUIREMENT DEBT SERVICE REVENUE REQUIREMENT (DSRR)	<u> </u>	(3,969)	x <u>1.1</u> (7,702,894)	· <u>1.1</u>	x <u>1.1</u> (7,702,894)			
	(1,000,020)_		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		(1): 02,001)			
ADD: ESTIMATED CASH FLOW SAVINGS FROM DW 20-055 FINANCING ESTIMATED DEBT SERVICE SAVINGS @ 3.67 TOTAL INTEREST COST	970,374		970,374		970,374			
x DEBT COVERAGE REQUIREMENT	970,374 1.1 x	۔ 1.1		۔ 1.1				
TOTAL ESTIMATED CASH FLOW SAVINGS FROM DW 20-055 FINANCING	1,067,411	-	1,067,411	<u> </u>	1,067,411			
CALCULATED ESTIMATED REVENUE (DEFICIENCY) / INCREASE	\$ (3,431,330)	\$ 1,088,323	\$ (2,343,006)	\$ 2,343,006	<u>\$</u> -			
	Revenue Requirement Component Summary:							
		City Bon	d Fixed Revenue Req	uirement (CBFRR):	\$ 7,729,032			
			Expense Revenue Re					
			otal O & M Expenses	\$ 14,581,494 3,968,596				
			Payroll Tax Expense	698,087				
			mortization Expense	145,720				
			Income Tax Expense Operating Expenses	103,249 19,497,146				
			Operating Expenses	(555,346)				
	N		Operating Expenses bense Factor (MOEF)	18,941,800 9.50%				
	v		EF Calculated Result	1,799,471	21,296,617			
			Service Revenue Rec					
			Forma Debt Service verage Requirement	\$ 7,002,631 (1.1	7,702,894			
			low Savings from DW					
	Estimated Debt Ser	vice Savings @ 3.67% Debt Service Co	6 Total Interest Cost verage Requirement	\$ (970,374) <u>1.1</u>	(1,067,411)			

DW 19-084 PENNICHUCK WATER WORKS, INC. SCHEDULE 2.2 - OPERATING INCOME STATEMENT AND DETAILED CALCULATION OF MAXIMUM REVENUE REQUIREMENT

Appendix 2, Attachment C

	Compar	y Proposal per Origi	nal Filing		Settlemen	t Proposal	
	(1) Test Year Operating Income	(2) Pro Forma Adj's Per Co's Filing	(3) Pro Forma Operating Income Per Co' Filing (Co's Sch 1)	(4) Adj's per Co Responses to Staff DR's (Sch 2a)	(5) Pro Forma Operating Income Per Settlement	(6) Revenue Increase per Settlement	(7) Revenue Requirement per Settlement
OPERATING REVENUES							
Revenues from Water Sales:							
Water Revenues from Base Rates	\$ 31,608,641	\$ 124,023	\$ 31,732,664	\$ (83,348)	\$ 31,649,316	\$ 3,769,433	\$ 35,418,749
Water Revenues from QCPAC	362,158	807,330	1,169,488	78,609	1,248,097	(1,248,097)	
Total Water Revenues from Water Sales	31,970,799	931,353	32,902,152	(4,739)	32,897,413	2,521,336	35,418,749
Water Sales for Resale	3,321		3,321		3,321		3,321
Other Operating Revenues	416,551	840	417,391		417,391		417,391
Total Operating Revenues	32,390,671	932,193	33,322,864	(4,739)	33,318,125	2,521,336	35,839,461
OPERATING EXPENSES							
Operation and Maintenance Expenses:							
Production Expense	5,074,509	223,378	5,297,887	8,300	5,306,187		5,306,187
Transmission and Distribution Expense	2,848,339	98,367	2,946,706	(25,258)	2,921,448		2,921,448
Engineering Expense	1,287,747	11,317	1,299,064		1,299,064		1,299,064
Customer Account and Collection Expense	489,789	9,700	499,489		499,489		499,489
Administrative and General Expense	7,580,371	551,328	8,131,699	(231,028)	7,900,671		7,900,671
Inter-Division Management Fee	(3,288,063)	(147,764)	(3,435,827)	90,462	(3,345,365)		(3,345,365)
Total Operation and Maintenance Expenses	13,992,692	746,326	14,739,018	(157,524)	14,581,494	-	14,581,494
Other Operating Expenses:							
Property Tax Expense	4,438,775	109,161	4,547,936	(579,340)	3,968,596		3,968,596
Payroll Tax Expense	698,087		698,087		698,087		698,087
Gain from Forgiveness of SRF Debt	(59,384)	59,384	-		-		-
Depreciation Expense	5,839,694	(5,839,694)	-		-		-
Amortization of Acquisition Adjustment	(27,026)	27,026	-		-		-
Amortization - CIAC	(740,182)	740,182	-		-		-
Amortization Expense	1,965,332	(1,550,064)	415,268	(269,548)	145,720		145,720
Total Other Operating Expenses	12,115,296	(6,454,005)	5,661,291	(848,888)	4,812,403		4,812,403
Income Tax Expense:							
State Income Tax Expense	794,209	(690,960)	103,249		103,249		103,249
Federal Income Tax Expense	1,592,022	(1,592,022)					
Total Income Tax Expense	2,386,231	(2,282,982)	103,249	-	103,249	-	103,249
Total Operating Expenses	28,494,219	(7,990,661)	20,503,558	(1,006,412)	19,497,146		19,497,146
NET OPERATING INCOME	\$ 3,896,452	\$ 8,922,854	\$ 12,819,306	\$ 1,001,673	\$ 13,820,979	\$ 2,521,336	\$ 16,342,315

DW 19-084

PENNICHUCK WATER WORKS, INC.

Appendix 2, Attachment C

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SCHEDULE 2.2 - OPERATING INCOME STATEMENT AND DETAILED CALC	CULATION OF MAXIMUM REVENUE REQUIREMENT
CONEDUCE 2.2 - OF ERATING INCOME OF ATEMENT AND DETAILED OREG	

CALCULATION OF REVENUE DEFICIENCY AND REQUIRED INCREASE @ AN ESTIMATED DW 20-055 FINANCING TOTAL INTEREST COST OF 4.67%:	PER COMPANY	SETTLEMENT ADJUSTMENTS	PER SETTLEMENT	REVENUE	PRO FORMA
NET OPERATING INCOME	\$ 12,819,306	\$ 1,001,673	\$ 13,820,979	\$ 2,521,336	\$ 16,342,315
LESS: MATERIAL OPERATING EXPENSE SUPPLEMENT (MOES) TOTAL OPERATING EXPENSES LESS: NON-MATERIAL OPERATING EXPENSES MATERIAL OPERATING EXPENSES x MATERIAL OPERATING EXPENSE FACTOR (MOEF) MOEF CALCULATED RESULT	(20,503,558) <u>607,875</u> (19,895,683) <u>7.66%</u> x (1,523,054)	1,006,412 (52,529) 953,883 7.66% 73,022	(19,497,146) <u>555,346</u> (18,941,800) x <u>7.66%</u> (1,450,033)	x	(19,497,146) <u>555,346</u> (18,941,800) x <u>7.7%</u> (1,450,033)
LESS: CITY BOND FIXED REVENUE REQUIREMENT (CBFRR)	(7,729,032)	<u>-</u>	(7,729,032)		(7,729,032)
LESS: DEBT SERVICE REVENUE REQUIREMENT (DSRR) PRO FORMA DEBT SERVICE x DEBT COVERAGE REQUIREMENT DEBT SERVICE REVENUE REQUIREMENT (DSRR)	(6,999,023) x (7,698,925)	(3,608) (<u>1.1</u> (3,969)	(7,002,631) x <u>1.1</u> (7,702,894)	x	x (7,002,631) x <u>1.1</u> (7,702,894)
ADD: ESTIMATED CASH FLOW SAVINGS FROM DW 20-055 FINANCING ESTIMATED DEBT SERVICE SAVINGS @ 4.67 TOTAL INTEREST COST x DEBT COVERAGE REQUIREMENT TOTAL ESTIMATED CASH FLOW SAVINGS FROM DW 20-055 FINANCING	490,585 1.1 × 539,644	(<u>1.1</u>	490,585 x <u>1.1</u> 539,644	x	490,585 x
CALCULATED MAXIMUM REVENUE (DEFICIENCY) / INCREASE	\$ (3,592,062)	\$ 1,070,726	\$ (2,521,336)	\$ 2,521,336	<u>\$-</u>
		Reve	nue Requirement Cor	nponent Summary:	
		City Bon	d Fixed Revenue Req	uirement (CBFRR):	\$ 7,729,032
	Ν	Ti P I Totoal Less: Non-Material Material	Expense Revenue Re btal O & M Expenses roperty Tax Expense Payroll Tax Expense mortization Expenses Income Tax Expenses Operating Expenses Operating Expenses Operating Expenses enses Factor (MOEF)	\$ 14,581,494 3,968,596 698,087 145,720 103,249 19,497,146 (555,346) 18,941,800	
	Ĩ		EF Calculated Result	1,450,033	20,947,179
		Pro Debt Service Cor	Service Revenue Red Forma Debt Service verage Requirement	\$ 7,002,631 x 1.1	7,702,894
	Estimated Debt Ser	vice Savings @ 4.67%	Flow Savings from DW 6 Total Interest Cost verage Requirement	(490,585)	(539,644)
Reg - Op Inc - Max	6	2021 00	Total Maximum Rev		\$ 35,839,461

Docket No. 20-153 Exhibit 1

DW 19-084 LDG Exibit 2 PENNICHUCK WATER WORKS, INC. Appendix 2, Attachment C SCHEDULE 2a - OPERATING INCOME ADUSTMENTS PER COMPANY RESPONSES TO STAFF DATA REQUESTS

OPERATING REVENUES

REVENUES FROM WATER SALES

Water Revenues from Base Rates:

Town of Hudson Sales:	Staff Tech 2-24 Staff 3-16	\$ 309,436 (339,391)	\$ (29,955)
Calculation of 5-Year Average:	Staff Tech 2-16		 (53,393)
Total Adjustments - Water Revenues from	Base Rates		 (83,348)
Water Revenues from QCPAC:			
Pro-forma Annual QCPAC Revenues:	Staff Tech 2-3		86,989
Calculation of 5-Year Average:	Staff Tech 2-16 Staff 3-16	 26,761 (35,141)	 (8,380)
Total Adjustments - Water Revenues from	QCPAC		 78,609
TOTAL ADJUSTMENTS - OPERATING R	\$ (4,739)		

OPERATING EXPENSES

OPERATION AND MAINTENANCE EXPENSES

Production Expense:

Purchased Power:	Staff 2-10 Staff Tech 2-16 Staff 3-13	\$ 19,64 (73 (2,21	33)	16,689
Purchased Water:	Staff 2-39 Staff Tech 2-16	17,67 (24,15		(6,485)
Chemicals:	Staff Tech 2-16			(1,904)
Total Adjustments - Production Exp	ense			8,300
Transmission and Distribution Ex	(pense:			
Miscellaneous:	Staff 2-28 Staff Tech 3-5	(1,76 (15,15	,	(16,920)
Maintenance of Mains:	Staff Tech 3-5			(4,952)
Mainenance of Services:	Staff Tech 3-5			(3,386)
Total Adjustments - Transmission a	nd Distribution Expense			(25,258)
Dea Settlement Adi's	7			Page 181

Revenue Req - Settlement Adj's

LDG Exibit 2 Appendix 2, Attachment C

PENNICHUCK WATER WORKS, INC. SCHEDULE 2a - OPERATING INCOME ADUSTMENTS PER COMPANY RESPONSES TO STAFF DATA REQUESTS

DW 19-084

Administrative and General Expense:

Salaries and Wages:	Staff 2-13		44,407
Employee Benefits:	Staff 2-13		21,640
Regulatory Commission Expense:	Staff 2-12		(10,085)
Group Health Insurance:	Staff 2-41		(80,200)
Group Dental Insurance:	Staff 2-42		(2,846)
Office Supplies:	Staff 2-50 Staff Tech 3-5	(12,175) (5,750)	(17,925)
Miscellaneous:	Staff 2-50		(25,534)
Outside Services:	Staff 2-30 Staff 2-50 Staff Tech 3-5	(5,520) (26,626) (27,383)	(59,529)
Maintenance - Computer Equipment:	Staff Tech 2-9		(100,956)
Total Adjustments - Administrative and G	eneral Expense		(231,028)
Inter-Division Management Fee:			
Wages and Salaries:	Staff 2-13		(17,609)
Group Health Insurance:	Staff 4-3		21,382
Group Dental Insurance:	Staff 4-3		759
Office Lease:	Staff Tech 2-4		(4,277)
Maintenance - Computer Equipment:	Staff 4-2 Staff Tech 3-2	(26,917) 53,834	26,917
ROI Allocation to Affiliates:	Staff 2-25 Staff Tech 2-7	62,862 428	63,290
Total Adjustments - Inter-Division Manage	ement Fee		90,462
Total Adjustments - Operation and Mai	ntenance Expenses		(157,524)

DW 19-084 LDG Exibit 2 PENNICHUCK WATER WORKS, INC. Appendix 2, Attachment C SCHEDULE 2a - OPERATING INCOME ADUSTMENTS PER COMPANY RESPONSES TO STAFF DATA REQUESTS

OTHER OPERATING EXPENSES

Property Tax Expense:	Staff Tech 3-3		(579,340)
Amortization Expense:			
Deferred Assets (Pre-existing):	Staff 2-16 Staff Tech 2-5	(14,341) 6,594	(7,747)
Transmission and Distribution Expenses:	Staff Tech 3-5		7,830
Office Supplies:	Staff Tech 3-5		1,917
Maintenance - Computer Equipment:	Staff Tech 2-9 Staff Tech 3-4	11,218 (2,991)	8,227
Outside Services:	Staff Tech 3-5		7,000
Rate Stabilization Fund - Shortfall:	Staff Tech 2-23		(286,775)
Total Adjustments - Amortization Expense			(269,548)
Total Adjustments - Other Operating Ex	penses		(848,888)
TOTAL ADJUSTMENTS - OPERATING E	XPENSES		<u>\$ (1,006,412</u>)
NET OPERATING INCOME ADJUSTMEN	ITS		\$ 1,001,673

Docket No. 20-153 Exhibit 1

LDG Exibit 2 Appendix 2, Attachment C

DW 19-084 PENNICHUCK WATER WORKS, INC. SCHEDULE 2b - NON-MATERIAL OPERATING EXPENSES

Acct		C	Per o's 2018		j Per Co o's to Staff		djusted est Year
No.	Description	Gen'l Ledger			Requests	Balances	
	NIOR MANAGEMENT VEHICLES	\$	3,374	\$	<u> </u>	\$	3,374
921003 SE	NIOR MANAGEMENT - FUEL PURCHASED		4,087		-		4,087
921004 SE	NIOR MANAGEMENTT - VEHICLE REGISTRATION		991		-		991
923000 OL	JTSIDE SERVICES		385,360		(52,529)		332,831
926001 OF	FICER'S LIFE INSURANCE		6,303		-		6,303
926500 MI	SCELLANEOUS EMPLOYEE BENEFITS		8,759		-		8,759
926501 MI	SCELLANEOUS EMPLOYEE BENEFITS - WELLNESS		3,371		-		3,371
926502 MI	SCELLANEOUS EMPLOYEE BENEFITS - ACTIVITIES		11,674		-		11,674
926505 EN	IPLOYEE RELATIONS		-		-		-
926600 TU	JITION REIMBURSEMENT		32,246		-		32,246
926610 TR	AINING EDUCATIONAL SEMINARS		50,967		-		50,967
930100 ME	EETINGS & CONVENTIONS		35,325		-		35,325
930101 ME	EMBERSHIPS		35,590		-		35,590
930200 PU	JBLIC RELATIONS		25,625		-		25,625
930300 ME	EALS		4,203		-		4,203
930410 CH	ARITABLE CONTRIBUTIONS						
то	OTAL NON-MATERIAL OPERATING EXPENSES	\$	607,875	\$	(52,529)	\$	555,346

Notes:	(Outside Serv	Net			
Adj. Per Sch. 2a - Based on Co Responses to Staff Discovery:	Adm	nin & Gen'l	Amo	ortization	Adj	ustment
Co Response to Staff 2-30	\$	(5,520)	\$	-	\$	(5,520)
Co Response to Staff 2-50		(26,626)		-		(26,626)
Co Response to Staff Tech 3-5		(27,383)		7,000		(20,383)
Net Adjustment - Outside Services	\$	(59,529)	\$	7,000	\$	(52,529)

LDG Exibit 2

Appendix 2, Attachment C

DW 19-084 PENNICHUCK WATER WORKS, INC. SCHEDULE 3 - PRO FORMA TEST YEAR DEBT SERVICE AND ESTIMATED IMPACT OF DW 20-055 FINANCING

						PRO FOR		PAYMENTS			PRO FOR	MA INTEREST	PAYMENTS			A AMORTIZED D	EBT COSTS		
					2018	Pro Forma	Pro Forma	Adj's per Co	Pro Forma	2018	Pro Forma	Pro Forma	Adj's per Co	Pro Forma	2018	Adj's per Co	Pro Forma	PRO FORMA	PRO FORMA
				OUTSTANDING	Principal	Adj's per	Princ Pmts	Resp's to	Princ Pmts	Interest	Adj's per	Int Pmts	Resp's to	Int Pmts	Amortized	Resp's to	Amort Costs	DEBT SERVICE	DEBT SERVICE
Holder	Term	Maturity	Int Rate	DEBT	Payments	Co Filing	per Co Filing	Staff DR's	per Settl'mnt	Payments	Co Filing	per Co Filing	Staff DR's	per Settl'mnt	Debt Costs	Staff DR's	per Settl'mnt	PER CO FILING	PER SETTL'MNT
PRO FORMA TEST YEAR DEBT:																			
Outstanding Debt at 12/31/2018:																			
American United Life Insurance (AULI)	25	03/01/21	7.400%	\$ 3,200,000	\$ 400,000		\$ 400,000		\$ 400,000	\$ 241,733		\$ 241,733	\$ (19,733) (a)	\$ 222,000	\$ 8,711	\$ (8,711) (c	.) \$ -	\$ 650,444	\$ 622,000
SRF Loan - Hubbard Hill	20	04/01/22	3.800%	72,312	22,250		22,250		22,250	3,206		3,206	(846) (a)	2,360	· · · ·	, .	-	25,456	24,610
SRF Loan - Contract # 4 (Water Treatment Plant)	20	10/01/29	4.488%	1,916,605	144,459		144,459	5,120 (a)	149,579	69,595		69,595	(5,120) (a)	64,475	234	(234) (c	.) -	214,288	214,054
ARRA Loan - Ashley Commons	20	05/01/31	2.952%	325,583	7,988		7,988	981 (a)	8,969	9,922		9,922	(583) (a)	9,339	131	(131) (c) -	18,041	18,308
ARRA Loan - French Hill	20	07/01/32	2.864%	1,001,421	20,261		20,261	2,680 (a)		29,508		29,508	(1,549) (a)		370	(370) (c) -	50,139	50,900
ARRA Loan - Glenn Ridge	20	09/01/32	2.864%	76,168	1,494		1,494	202 (a)		2,243		2,243	(116) (a)	2,127	-		-	3,737	3,823
ARRA Loan - Armory (S Nashua Booster Station)	20	01/01/32	2.864%	224,762	4,984		4,984	624 (a)		6,633		6,633	(367) (a)		87	(87) (c		11,704	11,874
SRF Loan - Drew Woods	20	06/01/32	2.952%	617,773	36,989		36,989	1,107 (a)		18,831		18,831	(1,107) (a)		442	(442) (c		56,262	55,820
SRF Loan - Nashua Core	20	07/01/36	2.464%	1,978,000	89,323		89,323	2,227 (a)		49,935		49,935	(2,226) (a)	47,709	698	(698) (c	.) -	139,956	139,259
SRF Loan - Timberline Booster Station	20	07/01/36	2.616%	297,546	13,237		13,237	350 (a)		7,972		7,972	(350) (a)		105	(105) (c		21,314	21,209
SRF Loan - Raw Water Transmission	20	11/01/36	3.168%	3,019,510	107,304		107,304	23,793 (a)		60,499		60,499	(2,490) (a)	58,009	509	(509) (c	- ()	168,312	189,106
SRF Loan - Amherst Street - 2016	30	05/01/47	2.420%	1,383,522	11,019		11,019	8,671 (a)		33,837		33,837	(621) (a)	33,216	311	(311) (c	.) -	45,167	52,906
BNY Mellon - 2014 A Series Bonds	30	01/01/45	Various	38,905,000	1,030,000		1,030,000	45,000 (b)		1,760,318		1,760,318	(47,475) (a)	1,712,843	-		-	2,790,318	2,787,843
BNY Mellon - 2014 B Series Bonds	30	01/01/45	4.500%	5,030,000	95,000		95,000	5,000 (b)		228,488		228,488	(4,488) (a)		-		-	323,488	324,000
BNY Mellon - 2015 A Series Bonds	30	01/01/46	Various	19,490,000	545,000		545,000	20,000 (b)	565,000	917,987		917,987	(22,200) (a)	895,787	-		-	1,462,987	1,460,787
BNY Mellon - 2015 B Series Bonds	30	01/01/46	Various	1,840,000	100,000		100,000	5,000 (b)	105,000	94,500		94,500	(5,125) (a)	89,375	-		-	194,500	194,375
BNY Mellon - 2018 A Series Bonds	30	01/01/48	4.900%	4,460,000	-		-		-	100,484	103,891	204,375		204,375	-		-	204,375	204,375
BNY Mellon - 2018 B Series Bonds	30	01/01/48	4.900%	1,075,000	-	85,000	85,000		85,000	22,886	21,821	44,707		44,707	-		-	129,707	129,707
Sub-total: 2018 Outstanding Debt				84,913,202	2,629,308	85,000	2,714,308	120,755	2,835,063	3,658,577	125,712	3,784,289	(114,396)	3,669,893	11,598	(11,598)	-	6,510,195	6,504,956
New Debt Acquired during 2019:																			
BNY Mellon - 2019 A Series Bonds	30	01/01/49	4.220%	8,080,000	-	141,368	141,368	(49,701) (a)		-	347,460	347,460	923 (a)		-		-	488,828	440,050
BNY Mellon - 2019 B Series Bonds	30	01/01/48	4.220%	170,000	-		-	56,667 (a)	56,667	-		-	958 (a)	958	-		-	-	57,625
Sub-total: 2019 New Debt				8,250,000		141,368	141,368	6,966	148,334	-	347,460	347,460	1,881	349,341	-		-	488,828	497,675
PRO FORMA TEST YEAR TOTALS				\$ 93,163,202	\$ 2,629,308	\$ 226,368	\$ 2,855,676	\$ 127,721	\$ 2,983,397	\$ 3,658,577	\$ 473,172	\$ 4,131,749	\$ (112,515)	\$ 4,019,234	\$ 11,598	\$ (11,598)	\$ -	\$ 6,999,023	\$ 7,002,631

DW 20-055 FINANCING - NET ESTIMATED DEBT SERVICE SAVINGS:

© 3.67% Total Interest Cost Estimated Annual Debt Service: RSF Replenishment Financing Less: Estimated Annual Debt Service Savings: AULI Loan Refinancing 2014A & 2015A/B Bond Refinancing 2014A to 11 Interest Cost

ESTIMATED ADJUSTED PRO FORMA TEST YEAR DEBT SERVICE

© 4.67% Total Interest Cost Estimated Annual Debt Service: RSF Replenishment Financing Less: Estimated Annual Debt Service Savings: AULI Loan Refinancing 2014A & 2015A/B Bond Refinancing

ESTIMATED ADJUSTED PRO FORMA TEST YEAR DEBT SERVICE

Notes: (a) Per Co's response to Staff 3-6

(b) Per Co's response to Staff 2-46 (c) Per Co's responses to Staff 2-51 and Staff Tech 2-13

ş	2/9,010
	(32,328)
	(1,217,662)
	(970,374)
\$	6,032,257
s	317,017
	(28,096)
	(779,506)

070 040

(490,585)

6,512,046

DW 19-084 PENNICHUCK WATER WORKS, INC. REPORT OF PROPOSED RATE CHANGES - MAXIMUM

LDG Exibit 2 Appendix 2 - Attachment D Customer Class and COSS Impact

			Maximum Change in Annual Revenues from Base Rates					Maximum Change in Total Annual Water Revenues					
	Effect of	Average	Pro Forma Test Year	Less: Pro Forma Test Year	Pro Forma Test Year	Maximum Revenue	Maximum Change in Annual Revenues from	Chan	Maximum nge in Annual	Te	Pro Forma st Year	Maximum C Total A	nnual
Rate or Class	Proposed	Number	Water	QCPAC	Revenues from	Requirement	Base Rates		enues from		CPAC	Water Re	
of Service	Change	Customers	Revenues	Revenues	Base Rates	from Base Rates	Amount % Incre	se Ba	ase Rates	Re	venues	Amount	% Increase
G-M Residential Fixed Charges	Increase	27,954	\$ 7,594,339	\$ (289,742)	\$ 7,304,597	\$ 7,878,194	\$ 573,597 7.	5% \$	573,597	\$	(289,742)	\$ 283,855	3.89%
All Other G-M Charges	Increase		18,716,095	(714,065)	18,002,030	19,848,111	1,846,081 10.	5%	1,846,081		(714,065)	1,132,016	6.29%
Total G-M Charges		27,954	26,310,434	(1,003,807)	25,306,627	27,726,305	2,419,678 9.	0%	2,419,678		(1,003,807)	1,415,871	5.59%
Private FP	Increase	911	1,260,049	(48,631)	1,211,418	2,084,730	873,312 72.	9%	873,312	\$	(48,631)	824,681	68.08%
FP - Hydrants	Increase	5	3,582,340	(138,262)	3,444,078	3,797,263	353,185 10.	5%	353,185	\$	(138,262)	214,923	6.24%
Anheuser-Busch Contract													
Contract Charges	No Increase	2	371,430	-	371,430	371,430	- 0.	0%	-	\$	-	-	0.00%
Volumetric & Meter Charges	Increase	-	475,941	(19,220)	456,721	503,557	46,836 10.	5%	46,836	\$	(19,220)	27,616	6.05%
Milford Contract													
Contract Charges	No Increase	1	81,000	-	81,000	81,000		0%	-	\$	-	-	0.00%
Volumetric Charges	Increase	-	87,652	(6,631)	81,021	89,329	8,308 10.	5%	8,308	\$	(6,631)	1,677	2.07%
Hudson Contract													
Contract Charges	No Increase	1	32,800	-	32,800	32,800		0%	-	\$	-	-	0.00%
Volumetric Charges	Increase	-	63,390	(18,002)	45,388	50,042	4,654 10.	5%	4,654	\$	(18,002)	(13,348)	-29.41%
Tyngsborough Contract													
Volumetric & Meter Charge	Increase	1	325,735	(13,544)	312,191	344,205	32,014 10.	5%	32,014	\$	(13,544)	18,470	5.92%
Pennichuck East Utility Contract													
Volumetric & Meter Charge	Increase	1_	306,642		306,642	338,088	31,446 10.	5%	31,446	\$	-	31,446	10.25%
		28,876	\$ 32,897,413	\$ (1,248,097)	\$ 31,649,316	\$ 35,418,749	\$ 3,769,433 11.	1% \$	3,769,433	\$	(1,248,097)	\$ 2,521,336	7.97%

DW 19-084 PENNICHUCK WATER WORKS, INC. REPORT OF PROPOSED RATE CHANGES - ESTIMATED

LDG Exibit 2

Appendix 2 - Attachment D Customer Class and COSS Impact

			Estimated Change in Annual Revenues from Base Rates						Estimate	d Change in Total An	nual Water Revenu	Jes
Rate or Class	Effect of Proposed	Average Number	Pro Forma Test Year Water	Less: Pro Forma Test Year QCPAC	Pro Forma Test Year Revenues from	Estimated Revenue Requirement	Estimated Cha Annual Revenu Base Rat	ues from	Estimated Change in Annual Revenues from	Less: Pro Forma Test Year QCPAC	Estimated C Total A Water Re	nnual
of Service	Change	Customers	Revenues	Revenues	Base Rates	from Base Rates	Amount	% Increase	Base Rates	Revenues	Amount	% Increase
G-M Residential Fixed Charges All Other G-M Charges Total G-M Charges	Increase Increase	27,954	\$ 7,594,339 18,716,095 26,310,434	\$ (289,742) (714,065) (1,003,807)	\$ 7,304,597 18,002,030 25,306,627	\$ 7,851,057 <u>19,761,680</u> 27,612,737	\$ 546,460 <u>1,759,650</u> 2,306,110	7.48% 9.77% 8.77%	\$ 546,460 <u>1,759,650</u> 2,306,110	\$ (289,742) (714,065) (1,003,807)	\$ 256,718 1,045,585 1,302,303	3.51% <u>5.81%</u> 5.15%
Total G-IN Charges		27,954	20,310,434	(1,003,607)	23,300,027	27,012,737	2,300,110	0.7770	2,300,110	(1,003,607)	1,302,303	5.15%
Private FP FP - Hydrants	Increase Increase	911 5	1,260,049 3,582,340	(48,631) (138,262)	1,211,418 3,444,078	2,042,273 3,780,728	830,855 336,650	68.59% 9.77%	830,855 336,650	\$ (48,631) \$ (138,262)	782,224 198,388	64.57% 5.76%
Anheuser-Busch Contract Contract Charges Volumetric & Meter Charges	No Increase Increase	2	371,430 475,941	- (19,220)	371,430 456,721	371,430 501,365	- 44,644	0.00% 9.77%	- 44,644	\$ - \$ (19,220)	- 25,424	0.00% 5.57%
Milford Contract Contract Charges Volumetric Charges	No Increase Increase	1	81,000 87,652	- (6,631)	81,000 81,021	81,000 88,940	7,919	0.00% 9.77%	- 7,919	\$ - \$ (6,631)	- 1,288	0.00% 1.59%
Hudson Contract Contract Charges Volumetric Charges	No Increase Increase	1	32,800 63,390	- (18,002)	32,800 45,388	32,800 49,824	- 4,436	0.00% 9.77%	- 4,436	\$ - \$ (18,002)	- (13,566)	0.00% -29.89%
Tyngsborough Contract Volumetric & Meter Charge	Increase	1	325,735	(13,544)	312,191	342,706	30,515	9.77%	30,515	\$ (13,544)	16,971	5.44%
Pennichuck East Utility Contract Volumetric & Meter Charge	Increase	1_	306,642		306,642	336,616	29,974	9.77%	29,974	\$ -	29,974	9.77%
		28,876	\$ 32,897,413	\$ (1,248,097)	\$ 31,649,316	\$ 35,240,419	\$ 3,591,103	11.35%	\$ 3,591,103	\$ (1,248,097)	\$ 2,343,006	7.40%

LDG Exibit 2

Appendix 2 - Attachment D Customer Class and COSS Impact

Customer Class Rate Impact at Maximum Revenue Requirement

Based on 5/8 meter fixed charge @ 7.85%. Private Fire @ 72.09%, MuniFire, all other meter sizes but 5/8" GM fixed, all GM volumetric at same rate in yr 1. 3% increase yr over yr to munifire 6/19/20

4.67% TIC Overall rate increase of

11.91% with MOES @

7.66%

Customer Class	COSS ¹ Recommended Percentage Increase in Revenues	Recommended Increase % by Customer class per settlement	Rate increase at 3% to Munifire at end of Yr. One	Rate increase at 3% to Munifire at end of Yr. Two
G-M 5/8" Fixed -	7.85%	7.85%	0.00%	0.00%
G-M , Fixed, All other meter sizes -	7.85%	10.25%	-0.53%	-0.55%
G-M Residential Volumetric -	7.85%	10.25%	-0.53%	-0.55%
G-M Commercial Volumetric -	7.85%	10.25%	-0.53%	-0.55%
G-M Industrial Volumetric -	7.85%	10.25%	-0.53%	-0.55%
G-M Municipal Volumetric -	7.85%	10.25%	-0.53%	-0.55%
Municipal Fire -	24.20%	10.25%	3.00%	3.00%
Private Fire -	72.09%	72.09%	0.00%	0.00%
A-B Annual Fixed Fee -	0.00%	0.00%	0.00%	0.00%
A-B Volumetric -	7.85%	10.25%	-0.53%	-0.55%
A-B Fixed meter -	24.20%	10.25%	-0.53%	-0.55%
Milford Annual Fixed Fee -	0.00%	0.00%	0.00%	0.00%
Milford Volumetric -	7.85%	10.25%	-0.53%	-0.55%
Hudson Annual Fixed Fee -	0.00%	0.00%	0.00%	0.00%
Hudson Volumetric -	7.85%	10.25%	-0.53%	-0.55%
Tyngsborough Volumetric -	7.85%	10.25%	-0.53%	-0.55%
Tyngsborough Fixed Meter -	7.85%	10.25%	-0.53%	-0.55%
Pennichuck East Minimum Volumetric Fee -	7.85%	10.25%	-0.53%	-0.55%
Pennichuck East Volumetric -	7.85%	10.25%	-0.53%	-0.55%
Pennichuck East Fixed Meter -	7.85%	10.25%	-0.53%	-0.55%

1. Cost of Service Study

Customer Class Rate Impact at Estimated Revenue Requirement

LDG Exibit 2

Appendix 2 - Attachment D Customer Class and COSS Impact

Based on 5/8 meter fixed charge @ 7.85%. Private Fire @ 72.09%, MuniFire, all other meter sizes but 5/8" GM fixed, all GM volumetric at same rate in yr 1. 3% increase yr over yr to munifire

6/19/20

3.67% TIC Overall rate increase of

11.35% with MOES @

9.50%

Customer Class	COSS ¹ Recommended Percentage Increase in Revenues	Recommended Increase % by Customer class per settlement	Rate increase at 3% to Munifire at end of Yr. One	Rate increase at 3% to Munifire at end of Yr. Two
G-M 5/8" Fixed -	7.48%	7.48%	0.00%	0.00%
G-M , Fixed, All other meter sizes -	7.48%	9.77%	-0.53%	-0.55%
G-M Residential Volumetric -	7.48%	9.77%	-0.53%	-0.55%
G-M Commercial Volumetric -	7.48%	9.77%	-0.53%	-0.55%
G-M Industrial Volumetric -	7.48%	9.77%	-0.53%	-0.55%
G-M Municipal Volumetric -	7.48%	9.77%	-0.53%	-0.55%
Municipal Fire -	23.06%	9.77%	3.00%	3.00%
Private Fire -	68.70%	68.59%	0.00%	0.00%
A-B Annual Fixed Fee -	0.00%	0.00%	0.00%	0.00%
A-B Volumetric -	7.48%	9.77%	-0.53%	-0.55%
A-B Fixed meter -	7.48%	9.77%	-0.53%	-0.55%
Milford Annual Fixed Fee -	0.00%	0.00%	0.00%	0.00%
Milford Volumetric -	7.48%	9.77%	-0.53%	-0.55%
Hudson Annual Fixed Fee -	0.00%	0.00%	0.00%	0.00%
Hudson Volumetric -	7.48%	9.77%	-0.53%	-0.55%
Tyngsborough Volumetric -	7.48%	9.77%	-0.53%	-0.55%
Tyngsborough Fixed Meter -	7.48%	9.77%	-0.53%	-0.55%
Pennichuck East Minimum Volumetric Fee -	7.48%	9.77%	-0.53%	-0.55%
Pennichuck East Volumetric -	7.48%	9.77%	-0.53%	-0.55%
Pennichuck East Fixed Meter -	7.48%	9.77%	-0.53%	-0.55%

1. Cost of Service Study

Pennichuck Water Works, Inc. DW19-084 Illustrative Typical Customer Monthly bill pre and post permanent and QCPAC implementation Staff Tech 5-1 (5-7-20); Supp Staff Tech 5-1 (Rev. 5-29-20) Revised 6/18/2020 for Settlement

Docket No. 20-153 Exhibit 1

LDG Exibit 2 Appendix 2, Attachment E Illustrative Bills Impact

													Ν	/lonthly Bi	ill Cl	narges												
Charge Description	September		er Octobe		No	November		December		anuary	F	ebruary		March		April	May		June		July	August		ugust Se		0	October	
5/8 inch Meter Customer Charge (1) -	5/8 inch Meter Customer Charge (1) - \$ 22.58 \$ 24.27 \$ 24.27 \$ 24.27 \$ 24.27 \$ 24.27 \$ 24.27 \$ 24.27 \$		24.27	\$ 24.27	\$	24.27	\$	24.27	\$	24.27	\$	24.27	\$	24.27														
Volumetric Charge based on Usage (2) -	\$	28.44	\$	31.24	\$	31.24	\$	31.24	\$	31.24	\$	31.24	\$	31.24	\$	31.24	\$ 31.24	\$	31.24	\$	31.24	\$	31.24	\$	31.24	\$	31.24	
QCPAC Surcharge (3) -	\$	2.07	\$	-	Ş	2.17	\$	2.17	\$	2.17	\$	2.17	Ş	2.17	\$	2.17	\$ 2.17	\$	2.17	Ş	2.17	\$	2.17	\$	2.17	\$	2.17	
Rate Expense Recoupment (4) -	\$	-											\$	0.38	\$	0.38	\$ 0.38	\$	0.38	\$	0.38	\$	0.38	\$	0.38	\$	0.38	
Temporary to Permanent Rate Recoupment (5) -	\$	-	\$	-	Ş	-	\$	-	\$	0.94	\$	0.94	Ş	0.94	\$	0.94	\$ 0.94	\$	0.94	Ş	0.94	\$	0.94	\$	0.94	\$	0.94	
QCPAC Recoupment (6) -	\$	-	\$	-	Ş	3.26	\$	3.26	\$	3.26	\$	3.26	Ş	-	\$	-	\$ -	\$	-	Ş	-	\$	-	\$	-	\$	-	
Total Bill for month -	\$	53.09	\$	55.51	\$	60.95	\$	60.95	\$	61.89	\$	61.89	\$	59.00	\$	59.00	\$ 59.00	\$	59.00	\$	59.00	\$	59.00	\$	59.00	\$	59.00	

Notes:

(1) Current tariffed 5/8" meter charge - \$	22.58
(2) The Volumetric Charge is based on the following data:	
Average Monthly usage for Single Family Residence per month in 2018 -	7.77 CCF
Current tariffed Rate per CCF - \$	3.66
Projected rate increase percentage to GM Residential volumetric charge -	7.48% based on attached Customer Impact tab from the set of 1600 schedules filed in response to Staff Tech 5 DR's
Projected rate increase percentage to GM Residential 5/8" meter fixed charge -	9.85%
(3) QCPAC Surcharge in effect (granted in DW19-029) -	4.06%
QCPAC Surcharge requested in DW20-020 -	3.92% based on revenue requirment established in last set of 1600 schedules filed in response to Staff Tech 5 DR's
(4) Projected rate case expense of - \$	130,000 to be recouped over 12 months from 28,876 customer accounts
(5) Temporary to Permanent Rate Recoupment based on increase of -	3.42% and recoupment amount earned between March 2020 and September 2020. This number is net of QCPAC reovered during this time frame
recovered over	18 months, beginning in January 2021
(6) QCPAC recoupment from DW20-020 will be recouped over	4 months after issuance of order and authorization of recoupment

TAB 10

Testimony of Donald Ware and Attachments

STATE OF NEW HAMPSHIRE

BEFORE THE

PUBLIC UTILITIES COMMISSION

Docket No. DW 20-153

Pittsfield Aqueduct Company Permanent Rate Proceeding

DIRECT TESTIMONY OF DONALD L. WARE

November 16, 2020

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1 I. <u>INTRODUCTION</u>

What is your name and what is your position with the Pittsfield Aqueduct 2 Q. **Company?** 3 My name is Donald L. Ware. I am the Chief Operating Officer of the Pittsfield Aqueduct 4 A. 5 Company ("PAC" or "the Company") which is a subsidiary of Pennichuck Corporation. 6 I am employed by and have worked for Pennichuck Water Works, Inc. 1995. I am a 7 licensed professional engineer in New Hampshire, Massachusetts and Maine. 8 Q. Please describe your educational background. 9 A. I have a Bachelor in Science degree in Civil Engineering from Bucknell University in Lewisburg, Pennsylvania and I completed all the required courses, with the exception of 10 my thesis, for a Master's degree in Civil Engineering from the same institution. I have a 11 Master's in Business Administration from the Whittemore Business School at the 12 University of New Hampshire. 13 Q. Please describe your professional background. 14

15 A. Prior to joining the Company, I served as the General Manager of the Augusta Water

16 District in Augusta, Maine from 1986 to 1995. I served as the District's engineer

between 1982 and 1986. Prior to my engagement with the District, I served as a design

engineer for the State of Maine Department of Transportation for six months and before

19 that as a design engineer for Buchart-Horn Consulting Engineers from 1979 to 1982.

20 Q. What are your responsibilities as Chief Operating Officer of PAC?

- **A.** As Chief Operating Officer, I am responsible for PAC's overall operations, including
- 22 customer service, water supply, distribution and engineering. I work closely with PAC's

- Chief Engineer and other senior managers to help develop PAC's Annual and Three-Year
 Capital Improvement Plans.
- 3 II. <u>PURPOSE OF THIS TESTIMONY</u>
- 4 Q. What is the purpose of your testimony?

5 A. I will be discussing the operations of PAC and how these operations relate to and justify 6 the requested rate increase. I have been principally responsible for preparation of the 7 Filing Requirement Schedules and Rate of Return Information filed at Tabs 12 and 13 of 8 PAC's rate case filing. My testimony will address specific details of these schedules. My testimony will interface with Larry Goodhue's in regard to addressing the revenue 9 and operational pro forma that are part of 1604.06 Schedule 1 ("Sch 1"), requested 10 changes in rate design that are part of 1604.06 Schedule A ("Sch A") and the capital 11 investments that impact 1604.06 Schedule 3 ("Sch 3") and the financing necessary to 12 support the Company's Capital Improvements in 1604.08 Schedule 5 ("Sch 5"). 13 **Q**. Do you have any general comments regarding these schedules? 14 Yes. The format of the schedules is generally consistent with the format described in the A. 15 Settlement Agreement filed in DW 16-806 and DW19-084. The filed schedules follow 16 the methodology approved by Order No. 25,292 in Docket No. DW 11-026 as well as the 17 methodology described in the DW 16-806 and DW 19-084 Settlement Agreements 18 19 reflecting further modifications to the DW 11-026 methodology. To facilitate review of PAC's proposed rate relief, including the proposals for modifications to the ratemaking 20 structure, I have incorporated within these schedules analysis of several scenarios. One 21

- scenario applies the ratemaking structure as it was approved in DW 11-026. This
- 23 scenario is referred to in the schedules as "Perm-Conventional" (see, for example,

1		Schedule A, Tab 12) A second scenario applies the modifications requested by PAC in
2		its Petition for Specific Modifications to its Ratemaking Structure. This scenario is
3		referred to in the schedules as "Proposed" (see, for example, Schedule A, Tab 12).
4	Q.	Why have you incorporated these various scenarios in the ratemaking schedules and
5		rate of return information?
6	A.	As indicated by PAC's full rate case filing, PAC requires rate relief that will allow it to
7		generate revenues sufficient to cover its reasonable operating expenses, its obligations to
8		the City as reflected by the City Bond Fixed Revenue Requirement ("CBFRR"), and its
9		principal and interest obligations. PAC has prepared the ratemaking schedules and rate
10		of return information to incorporate and demonstrate the effects of the proposed
11		modifications within the same analysis that applies the approved ratemaking structure. I
12		believe that this integrated presentation will allow parties to understand the operation of
13		the proposed modifications in the most effective and efficient manner possible. As
14		evaluated in significant detail in DW 16-806, DW 17-128 and DW 19-084, PAC, like
15		PWW and PEU, must operate on a cash flow basis rate making basis instead of a
16		traditional rate of return ratemaking basis due to the fact that it's capital is 100% debt
17		funded and there is no equity in its rate structure. In the proposed rate making formula,
18		principal payments are substituted for depreciation expense to ensure sufficient cash flow
19		to cover the debt service and retirement. This is very clearly based on the fact that the
20		composite Depreciation rate for PAC's 2020 through 2022 Capex of 2.91% would return
21		PAC's invested capital over 34+ years which does not provide sufficient cash flow to pay
22		PAC's principal and interest on the debt issued to pay for the proposed improvements
23		which will have terms of 20 to 30 years.

1	III.	<u>DISC</u>	CUSSION OF SPECIFIC SCHEDULES AND INFORMATION
2	Q.	Pleas	e discuss the various Schedule A's that are part of the filing.
3	А.	I have	e included two Schedule A's as part of the 1604.06 schedules titled as follows:
4			1. Sch A Perm-Conventional (Sch A P-C)
5			2. Sch A Proposed
6	Q.	Pleas	e explain the formation Sch A Perm-Conventional.
7	А.	The f	irst column Sch A P-C reflects data from the Test Year ("TY") ending December
8		31, 20	019 without any pro forma adjustments following the prescribed filing process
9		appro	ved as part in DW11-026. The first pro forma column titled "PRO FORMA
10		Adjus	stments to Test Year" adjusts the 2019 TY data as follows:
11		(1)	The 2019 TY ending rate base was reduced by \$2,263,803 reflecting the removal
12			of the equity that was purchased by the City along with the Municipal Acquisition
13			Regulatory Adjustment ("MARA"). The MARA were removed from the
14			Company's rate base because in DW 11-026, the Commission granted PAC the
15			CBFRR component to its revenues to pay for the City's debt incurred in acquiring
16			all the shared of stock in Pennichuck Corporation. The CBFRR component of
17			rates is used in lieu of a return on the equity related portions of rate base that were
18			purchased by the City when it purchased of Pennichuck Corporation.
19		(2)	The 2019 TY Adjusted Net Operating Income was pro formed to reflect known
20			and measurable changes to the 2019 TY revenues, operating expenses and
21			operating deductions that were only partially incurred during 2019 or will be
22			incurred within 12 months of the end of the 2019 TY. These operating expense

1		and deduction pro forma adjustments will be discussed in detail later in my
2		testimony when I discuss the formulation of Sch 1 P-C.
3		(3) The 2019 TY Current Revenues found in Sch A P-C were pro formed by reducing
4		by the Company's share of the CBFRR, or \$147,539, per Sch 1 Attachment A,
5		page 2.
6	Q.	Please explain the derivation of the Rate of Return (ROR) for the Test Year and for
7		the Proforma Test Year detailed on Schedule A P-C.
8	A.	The Test Year ROR is derived in Schedule 1 of the 1604.08 Schedules. It reflects the
9		short-term intercompany debt and the long term SRF debt on PAC's books as of
10		12/31/2019 and their associated interest rates.
11	Q.	Please explain what the remaining \$14,674 of short-term debt that is reflected in the
12		pro forma 1604.08 Schedule 1.
13	А.	The \$14,674 is a short-term intercompany loan from Pennichuck Water Works, Inc. to
14		PAC to provide cash to sustain its operations when cash flow from revenues are not
15		sufficient to cover operating expenses.
16	Q.	Please explain the reasoning behind the additional Puc 1604.06 Schedule titled
17		"Schedule A-Proposed".
18	A.	The additional Schedule A reflects the Company's request for the use of alternate
19		revenue requirement methodologies to the conventional revenue requirement
20		methodology followed in Schedule A P-C and is reflective of the rate making
21		methodologies approved in for PWW in DW16-806 and DW19-084.
22	Q.	Please explain the alternate rate treatment sought by the Company on Puc 1604.06
23		Schedule A Proposed.

1	A.	The requested rate treatment involves the following modifications:

1. Modifying the test year ending revenues to reflect the average of last five years of 2 volumetric sales (2015 through 2019). The purpose of this adjustment is to eliminate the 3 swings in revenues that can occur between a wet test year followed by a dry year or a dry 4 5 test year followed by wet year. The normalization of volumetric sales and expenses from 6 the test year to the average of five years of volumetric sales and the associated production 7 related expenses results in smaller swings in Net Income than would otherwise be 8 associated with swings in summer consumption. The Sch A Proposed -5 Yr Ave Current Revenues used are based on 1604.06 Schedule 1C. 9 2. Adding a Material Operating Expense Revenue Requirement (MOERR) based on the 10 Material Operating Expenses incurred during the Test Year with proformas reflecting 11 known and measurable changes to the Test Year expenses in addition to changes to those 12 operating expenses that are impacted by a change in production expenses associated with 13 using a 5-year average of water produced. The Material Operating expenses (MOE's) 14 used for this revenue requirement do not include Non-Material Operating Expenses 15 (NOE's) as detailed on 1604.06 Sch 1, Attachment I. The MOE's are inclusive of total 16 operating expenses as well as amortization, property tax and income tax expenses. 17 3. Adding a Material Operating Expense Factor (MOEF) of 6% to provide an operating 18 19 cushion to test year operating expenses which typically grow year over year due to inflation and other operational pressures, such as changes in regulatory requirements. 20 This MOEF is meant to provide the necessary cash to cover the increases in operating 21 expenses not covered by the revenues granted in the last rate case with the goal of the 22 Company not having to borrow money to cover operating expenses as there is no rate 23

1		mechanism to allow for the recovery of cash borrowed to pay the deficit between
2		`operating revenues and expenses.
3		4. Adding a Non-Material Operating Expense Revenue Requirement (NOERR) which
4		provides the cash to cover approved Test Year expenses that are deemed nonmaterial
5		based on the chart of accounts to which these expenses are ascribed. The applicable chart
6		of accounts from Non-Material Operating Expenses (NOE's) are as approved in DW 16-
7		806.
8		5. Adding a Debt Service Revenue Requirement (DSRR 1.0) which reflects the revenue
9		necessary to cover the Company's annual debt service (principal and interest payments)
10		associated with all plant in service by the end of the Test Year ending 12/31/2019 as
11		found in Sch 5 of the 1604.08 Schedules. This revenue requirement replaces the
12		conventional revenue requirement methodology that is based on rate base, rate of return
13		and depreciation expense as further detailed in Mr. Goodhue's testimony.
14		cost of the principal and interest associated with the Company's outstanding debt.
15		6. Adding a Debt Service and Interest Coverage Requirements (0.1 DSRR) equal to
16		10% of the DSRR 1.0.
17	Q.	Are the results of the revenue requirement derived from conventional rate making
18		methodology with the CBFRR versus the proposed rate making methodology for the
19		summarized anywhere within your testimony?
20	А.	Yes. Please see Exhibit DLW-1, Tab 12 for this comparison as follows:
21		(1) Using the rate making methodology approved in DW 11-026 resulted in a revenue
22		requirement of \$820,922 or a 6.35% increase over the pro forma test year
23		revenues.

1		(2) Using the proposed rate making methodology approved in DW 19-084 resulted in
2		a revenue requirement of \$862,927 or a 11.18% increase over the pro forma test
3		year revenues.
4	Q.	How do these increases impact the average single-family residential water bill?
5	А.	Please see the Customer Impact schedule tab in the 1604.06 schedules Tab 12 for the
6		impact of the revenue requirement increase detailed above on the average single-family
7		residential bill on a monthly basis. In regard to the Company's proposed rate making
8		methodology, which resulted in a requested overall rate increase of 11.18%, there would
9		be an increase of \$6.50 per month to the average single-family monthly water bill of
10		\$58.12 resulting in an average monthly water bill of \$64.62.
11	Q.	Please discuss the pro forma to the Total Revenues detailed in Puc 1604.06 Schedule
12		1 P-C and Schedule 1 Proposed, the Operating Income Statement.
13	А.	The Company's Schedule 1 begins with the TY ending 12/31/2019 Revenues. The TY
14		ending Revenues were pro formed in a series of steps as follows:
15	(1)	In arriving at the PRO FORMA Revenues for the 12 months ended 12/31/2019, the TY
16		Revenues were pro formed for the 12 months ending $12/31/2019$, by reducing the TY
17		revenues by the sum of: (a) the CBFRR allowed (per Sch 1 Attachment A, Page 2), and
18		(b) by a pro forma adjustment to the test year (Proposed Sch 1 only) volumetric sales
19		related to the five year average calculation found on 1604.06 Schedule 1C.
20	Q.	Please discuss the pro forma to the Total Operating Expenses detailed in Schedule 1
21		P-C and in Schedule 1 Proposed, the Operating Income Statement.
22	А.	PAC's Schedule 1 begins with the TY ending 12/31/2019. The Pro forma adjustments
23		reflect known and measurable increases/decreases to the 12/31/2019 Test Year Operating

1		Expenses that occurred during the test year or will occur within 12 months of the end of
2		2019 TY resulting in the PRO FORMA 12 Months ending 12/31/2019 Operating
3		Expenses. The next PRO FORMA column (found only on Sch 1, Proposed) reflects PRO
4		FORMA Adjustments to the Operating Expenses on Sch 1-Proposed that are associated
5		with the change in pumpage expenses associated with the difference between the 2019
6		TY pumpage and the Five-Year average production derived in 1604.06 Schedule 1C.
7		Each of the PRO FORMA adjustments in Schedule 1 are explained on the Schedule 1
8		support schedules.
9	Q.	Please discuss each of the Sch 1 Support Schedules used to develop the pro forma
10		between the Twelve Months 12/31/2019 and the Pro Forma Test Year ending
11		12/31/2019 in regard to Operating Expenses.
12	А.	Sch 1 Attachment B – Production Account. Pro forma Production expenses are
12 13	А.	Sch 1 Attachment B – Production Account . Pro forma Production expenses are expected to be \$1,537 more than the actual 2019 TY production expenses or about a
	А.	
13	А.	expected to be \$1,537 more than the actual 2019 TY production expenses or about a
13 14	А.	expected to be \$1,537 more than the actual 2019 TY production expenses or about a 1.2% increase. This increase is associated with increases to union labor rates which is
13 14 15	А.	expected to be \$1,537 more than the actual 2019 TY production expenses or about a 1.2% increase. This increase is associated with increases to union labor rates which is slighted offset by a reduction in purchased power expenses. The Company also adjusted,
13 14 15 16	А.	expected to be \$1,537 more than the actual 2019 TY production expenses or about a 1.2% increase. This increase is associated with increases to union labor rates which is slighted offset by a reduction in purchased power expenses. The Company also adjusted, production expenses (for the proposed rate making methodology only) to account for an
13 14 15 16 17	Α.	expected to be \$1,537 more than the actual 2019 TY production expenses or about a 1.2% increase. This increase is associated with increases to union labor rates which is slighted offset by a reduction in purchased power expenses. The Company also adjusted, production expenses (for the proposed rate making methodology only) to account for an increase the amount of water that would be produced based on the five-year average for
13 14 15 16 17 18	Α.	expected to be \$1,537 more than the actual 2019 TY production expenses or about a 1.2% increase. This increase is associated with increases to union labor rates which is slighted offset by a reduction in purchased power expenses. The Company also adjusted, production expenses (for the proposed rate making methodology only) to account for an increase the amount of water that would be produced based on the five-year average for the 2019 TY production by \$66 to reflect the proforma adjustment purchased power
13 14 15 16 17 18 19	Α.	expected to be \$1,537 more than the actual 2019 TY production expenses or about a 1.2% increase. This increase is associated with increases to union labor rates which is slighted offset by a reduction in purchased power expenses. The Company also adjusted, production expenses (for the proposed rate making methodology only) to account for an increase the amount of water that would be produced based on the five-year average for the 2019 TY production by \$66 to reflect the proforma adjustment purchased power expenses.

1	Sch 1 Attachment D Customer Accounts and Collection. Pro forma Customer
2	Accounts and Collection expenses are expected to be \$422 less than the 2019 TY
3	expenses or about a 2.7% decrease. The decrease in expenses is the result of decreased
4	print management and postage costs.
5	Sch 1 Attachment E Administrative and General Account. Pro forma Administrative
6	and General expenses are expected to be \$623 greater than the actual 2019 TY expenses
7	or about an 2.3% increase reflecting increases in insurance expense and regulatory
8	commission expenses.
9	Sch 1, Attachment F Inter Divisional Management Fee expenses. Pro forma Inter
10	Divisional Management Fees in 2020 are expected to increase \$1,385 over the 2019 TY
11	Inter Divisional Management Fee expenses as a result of:
12	1. The Company's 1.42% share Annualized Salary decrease of \$134,080 at
13	Pennichuck Water Works resulting in a decrease of \$1,904.
14	2. The Company's 1.42% share of the \$3,035 decrease in Pennichuck Water
15	Works office lease expense or a decrease of \$43.
16	3. The Company's 1.42% share of the \$22,147 increase in Pennichuck Water
17	Works Pension and Health Retirement expenses or \$314.
18	4. A \$3,018 increase associated with a shift in PWW's Tier 1 management fee
19	expenses associated with changes in PWW, PEU, PWSC and PAC's revenues
20	driven by a reduction of PWSC's revenues (due to the reduction of about \$1.5
21	million in revenues associated with the loss of the Hudson operating contract) and
22	an increase in PWW's revenues associated with DW 19-084.

Docket No. 20-153 Exhibit 1

Testimony of Donald L. Ware

1		Sch 1 Attachment G Property Taxes Pro forma Property Tax expenses are expected to
2		be \$230 less than the actual 2019 TY expenses or about a 0.3% decrease reflecting
3		changes associated with plant additions and retirements and changes to the Town tax rate.
4		Sch 1 Attachment J Income Taxes Pro forma Income Tax expenses (Federal and
5		State) were reduced by \$13,529 to reflect the difference book taxes and actual cash taxes
6		paid. This pro forma only applies to Sch 1 Proposed. The tax pro forma for Sch 1 P-C is
7		found on Sch 1, Attachment L.
8		Sch 1, Attachment K Deprecation Expenses – Pro forma Depreciation Expenses (only
9		used for rate making on Sch 1 P-C were decreased by \$27,111 from the 2019 Test Year
10		depreciation expense of \$101,572, primarily due to the elimination of depreciation
11		expenses associated with equity funded assets that were acquired by the City on
12		1/25/2012.
13		Sch 1 Attachment L Income Taxes Pro forma Income Tax expenses (Federal and
14		State) were reduced by \$44,289 to reflect the difference in book taxes for the 2019 TY
15		and a pro forma of Book Taxes for 2019 accounting for known and measurable changes
16		to the 2019 TY expenses associated with the previously described operating expense and
17		operating deduction pro forma. This pro forma only applies to Sch 1 P-C.
18	Q.	Please compare the total operating expenses for the pro forma Year Ending ("YE")
19		12/31/19 operating expenses compared to the actual YE 2013 (Last rate case test
20		year for PAC making 2013 YE the equivalent of the pro forma YE 2012) total
21		operating expenses.
22	А.	The Pro forma TY 19 operating expenses (which is the equivalent to the projected YE
23		2020 operating expenses) are \$415,657 versus the YE 2013 operating expenses of

1		\$398,118 or an increase of \$17,509 which translates to an average annual increase in
2		operating expenses of less than 1% over the past 6 years.
3	Q.	Please discuss the pro formas to the Total Operating Deductions as detailed in
4		Schedule 1 P-C and Schedule 1 Proposed, the Operating Income Statement.
5	А.	The progression of pro forma to the Company's Total Operating Deductions as detailed
6		in Schedule 1 (Perm-Conventional and Proposed) follows the same steps as detailed in
7		response to the question regarding pro forma to Total Operating Expenses, detailed
8		previously in this testimony.
9	Q.	Please discuss each of the Sch 1 Support Schedules between the Twelve Months
10		12/31/2019 and the Pro Forma Test Year ending 12/31/2019 in regard to Operating
11		Deductions.
12	А.	Sch 1 Attachment G Property Taxes Pro forma Property Tax expenses are expected to
13		be \$230 less than the actual 2019 TY expenses or about a 0.3% decrease reflecting
14		changes associated with plant additions and retirements and changes to the Town tax rate.
15		Sch 1 Attachment J Income Taxes Pro forma Income Tax expenses (Federal and
16		State) were reduced by \$13,529 to reflect the difference book taxes and actual cash taxes
17		paid. This pro forma only applies to Sch 1 Proposed. The tax pro forma for Sch 1 P-C is
18		found on Sch 1, Attachment L.
19		Sch 1, Attachment K Depreciation Expenses – The pro forma to the Operating
20		Deductions associated with changes to Depreciation and the Acquisition Adjustment
21		Expenses reflect the impact of three (3) pro formas as follows:

1		(1)	The annualization of a half year of depreciation expense to a full year of
2			depreciation expense for plant placed in service between 1/1/2019 and
3			12/31/2019. This resulted in a pro forma increase in depreciation expense of \$274
4		(2)	The elimination of a full year's worth of depreciation associated with plant that
5			was retired from service between $1/1/2019$ and $12/31/2019$. This resulted in a pro
6			forma decrease in depreciation expense of \$59.
7		(3)	A reduction in depreciation expense in the amount of \$27,325. This was
8		associa	ated with the elimination of depreciation expense related to the elimination of
9		\$1,063	3,241 of equity-related assets in accordance with Order 25,292 in Docket No. DW
10		11-026	6. Additionally, pro forma was made to Depreciation Expenses (only used for rate
11		makin	g on Sch 1 P-C) associated with plant additions and retirements that occurred
12		during	the Test Year. The net impact of these adjustments in depreciation expense was a
13		decrea	se in the Test Year depreciation expense of \$101,572 by \$27,111.
14		Sch 1	Attachment L Income Taxes Pro forma Income Tax expenses (Federal and State)
15		were r	educed by \$44,289 to reflect the difference in book taxes for the 2019 TY and a
16		pro for	rma of Book Taxes for 2019 accounting for known and measurable changes to the
17		2019 7	TY expenses associated with the previously described operating expense and
18		operat	ing deduction pro forma. This pro forma only applies to Sch 1 P-C.
19	Q.	Please	e discuss the pro forma to the Operating Deductions related to Amortization
20		Expen	ISE.
21	А.	The pr	o forma to the Operating Deductions associated with changes to Amortization
22		Expen	ses were reduced by \$34,349 associated with the elimination of the amortization of
23		the M.	ARA in accordance with Order 25,292 (DW 11-026) in the amount of \$200,394.

Docket No. 20-153 Exhibit 1

Testimony of Donald L. Ware

1	Q.	Please explain the Pro Forma adjustments made in Sch 1 Proposed to the Total
2		Operating Expenses applied to the PRO FORMA 12/31/2019 column using the
3		FIVE-YEAR AVE for volumetric sales as opposed to the TY 2019 volumetric sales.
4	А.	Just as revenue levels were normalized in Sch 1- Propose to reflect the difference
5		between the 2019 volumetric sales and the Five-Year average of volumetric sales the
6		operating expenses that are impacted by the change in production expenses have been
7		normalized to reflect the change in operating expenses associated with producing the
8		difference between the Five-Year Average production volumes and the TY 2019
9		production volumes. This proforma was made to the 2019 pro forma Test Year expenses
10		and is detailed on 1604.06 Sch 1, Attachment B.
11	Q.	What operating expenses are impacted by the change in production volume.
12	А.	The primary expense impacted by a change in production volumes is the electric
13		expenses required to produce and deliver the water to customers
14	Q.	What is the total impact on the operating expenses detailed above as a result of
15		adjusted production volumes as detailed previously?
16	А.	The impact on operating expenses, per Sch 1 Attachment B is an increase of \$66 in
17		expenses which is associated with an increase in electrical expenses related to the five-
18		year average production volume being 3.47% greater than the 2019 TY production
19		volume.
20	Q.	Please describe Sch 3 and the pro forma made to it:
21	A.	Sch 3 is used to develop the Company's Total Rate Base which is required to compute
22		the revenue requirement following the DW 11-026 rate making methodology. The
23		Schedule begins with the Company's 2019 TY Average Rate Base. The following pro

22	Q.	Does F	PAC plan	to seek a Step Increase for plant invested in during 2020?
21			of the M	ARA per Sch 3 Attachment B.
20		(4)	Other &	Deferred Charges were reduced by \$1,203,429 reflecting the elimination
19			Attachm	ent D.
18			the 2019	TY operating expenses and a 12.33% Working Capital Rate per Sch 3
17		(3)	Working	capital was increased by \$769 reflecting the 2019 pro forma increases to
16			Attachm	ent A, Exhibits 1 and 3.
15			1/1/2019	and 12/31/2019 to reflect a full year's depreciation expense per Sch 3
14			adjusting	g depreciation expense for plant additions and retirements made between
13		(2)	Accumu	lated Depreciation was increased by \$215 reflecting the net impact of
12			p	alant retirements that occurred between 1/1/2019 and 12/31/2019.
11			d	lifference between the 13-month average and 2019 YE rate base value for
10			(c) A	A reduction in 2019 TY Average rate base of \$1,659 to reflect the
9			p	alant additions that occurred between 1/1/2019 and 12/31/2019.
8			d	lifference between the 13-month average and 2019 TY rate base value for
7			(b) A	An increase in the 2019 TY Average rate base of \$3,698 to reflect the
6			t	he acquisition by the City of Nashua.
5			f	rom the elimination of the equity on the Company's books at the time of
4			(a) A	A reduction of \$1,063,241 in the 2019 TY Average rate base resulting
3		(1)	Plant in	Service was adjusted per Sch 3 Attachment A as follows:
2		Base:		
1		formas	were ma	de to the 2019 TY Ave. Rate Base to create the Pro forma Test Year Rate

22		Company between the DW 13-130 rate case and this rate filing?
21	Q.	What is the net change in plant, property and equipment invested in by the
20		decades into the future.
19		colored water history and impacts on fire flows this pipe may not be replaced until
18		part of the Company's asset management plan, but based on location, age, break history,
17		main is unlined cast iron. A replacement plan for this water main will be developed as
16		1998 and 2016. As of the end of 2020 about 14% or about 12,000 LF of PAC's water
15		substandard water mains (steel, stove pipe, unlined cast iron) were replaced between
14		constructed of either ductile iron or lined cast iron water main. The majority of PAC's
13		plans in the near future (10 years) to replace its existing water mains as most are
12		for these capital improvements and any others made between rate cases. PAC has no
11		these projects such that it will seek rates through the normal rate making process to pay
10		the water treatment process to remove disinfection byproduct precursors. PAC will time
9		completed in PAC: (1) the construction of a water storage tank and (2) improvements to
8		Over the next three years there are two major capital improvements that need to be
7		PAC's annual capital investments also do not warrant a QCPAC mechanism, at this time.
6	А.	No. Unlike Pennichuck Water Works and Pennichuck East Utility, the size and scope of
5		part of this rate case?
4	Q.	Does PAC plan to seek a Qualified Capital Project Adjustment (QCPAC) charge as
3		filing for a Step increase is warranted.
2		long-term debt associated with those investments at present so PAC does not feel that
1	А.	No. There were a limited number of investments made in PAC in 2020 and there is no

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1	А.	The Company's TY2102 Net Plant in Service (exclusive of CIAC) was \$1,196,371 which
2		its' TY 2019 Net Plant in Service (exclusive of CIAC) was \$1,415,854 or an increase in
3		Net Plant of \$219,483. The total plant additions over this seven-year time frame were
4		\$409,258.
5	Q.	What made up the plant additions between TY2012 and TY2019?
6	А.	The plant additions were as follows:
7		1. Account 304 – Structures – \$8,640
8		New Shingled roof on Water Treatment Plant - \$8,640. Replaced 20-year-old
9		shingles.
10		2. Account 311 – Pumping Equipment - \$11,170
11		Replace failed WTP Backwash pump - \$9,849
12		Rebuild failed WTP Booster pump - \$1,320
13		3. Account 320 – Water Treatment Equipment - \$10,061
14		Replace failed Filter Actuators - \$10,061
15		4. Account 331 – Distribution Mains - \$268,077
16		Joy Street – Paving associated with the replacement of 1600+ LF of 8" Stove pipe
17		water main with 8" DIPCL that occurred in 2012 and 2013 - \$46,273
18		Replace failed gate valves $(6) - $19,761$
19		Broadway Street - replace 197 LF of 6 unlined cast iron watermain with 6" DIPCL -
20		\$39,132
21		Fairview/Catamount Road project – Install parallel water main from WTP to Main
22		Street. SRF funded project \$162,912
23		5. Account 333 – Water Services - \$48,845

1		A total of 15 services were replaced/installed new during this time frame. Ten of the
2		services were replacements of existing main to stops and 4 were new main to stops of
3		existing, single family residential properties.
4		6. Account 334 – Meters and Radios - \$32,837
5		A total of 53 meters were exchanged during the meter periodic testing program. The
6		meters being removed were brass with a high lead contest and were replaced with
7		new, lead free brass meters. During the same time frame four new meters were
8		installed for new customers. The total investment in meters was \$28,242
9		A total of 40 radio meter readers failed during this time frame and were replaced with
10		new radio readers. Four new radio meter readers were installed in conjunction with
11		the four new meters installed above. The total investment in radios was \$4,595
12		7. Account 335 – Hydrants - \$20,331
13		A total of 5 failed hydrants were replaced during this time frame.
14		7. Account 346 – Communications Equipment - \$9,298
15		Replace a failed SCADA computer which failed at the WTP and was replaced -
16		\$3,839
17		Cellular SCADA alarming was added to the WTP to allow SCADA from Pittsfield
18		WTP to report to the Nashua WTP - \$5,459
19	Q.	How was the Rate of Return in the Puc 1604.06 Schedule 1A determined?
20	А.	The rate of return was calculated in the Puc 1604.08 Schedule 1. Schedule 1 has one pro
21		forma referenced in Note #4 which is the elimination of \$1,063,241 of common equity
22		associated with the elimination of the MARA.
23	Q.	Please describe the 1604.08 Schedule 5.

А.	The 1604.08 Schedule 5 reflects the long-term debt on the Company's books. The
	Company has two long term debt obligations:
	1. An SRF loan associated with the Catamount Road project which was approved in
	PUC Order No. 25,888 in DW 16-035,
	2. A long-term intercompany loan with Pennichuck Corporation that was approved
	in PUC Order No. 26,125 and in DW 18-033.
	These two loans result in a blended effective debt rate of 3.25% and a pro forma 2020
	principal and interest payment of \$67,828. The pro forma reflects the changes to
	principal and interest payments made in 2019 and those that will be paid in 2020.
	The debt instrument specific information is detailed in the columns between and
	including the columns titled "Term" to "Coupon Rate". The bottom line to this schedule
	is that the Company had \$1,312,186 of outstanding debt as of 12/31/2019 with an average
	Funded "Effective Rate" of 3.25% which is the Component Cost Rate for the Company's
	Long-term Debt used in the calculation of the company's Overall Rate of Return. All the
	columns to the right of the "Coupon Rate" in Sch 5 of the 1604.08 schedules are new to
	this schedule and reflect the calculation of the Principal and Interest payments ("P&I")
	made on these bonds as follows:
	(1) The P&I payments made by the Company during the 2019 TY in the amount of
	\$67,791.
	(2) The pro forma 2019 P&I payments in the amount of \$67,828 reflecting the total
	annual P&I payments that the Company will need to make on the outstanding
	loan amounts in 2020 to fund the Company's Plant in Service as of 12/31/2019.
	A.

1	IV.	DISCUSSION OF OTHER OPERATIONAL MATTERS
2	Q.	Thank you for walking through the schedule details. Are there any operational
3		issues you would like to discuss?
4	А.	Yes, I would like to discuss the Company's request and calculations regarding the Rate
5		Stabilization Funds ("RSF") it is seeking to undergird the Company's payment of its
6		CBFRR obligation, its payment of Material Operating Expenses Revenue Requirement
7		(MOERR) and its payment of outstanding Principal and Interest ("P&I").
8	Q.	What are the requested levels for each RSF?
9	А.	The Company is seeking to establish each RSF as follows:
10		CBFRR RSF - \$13,000
11		MOERR RSF - \$80,000
12		P&I 1.0 RSF - \$7,000
13	Q.	Please explain how the requested RSF levels were calculated?
14	А.	The calculations used to establish the requested RSF levels can be found in DLW-Exhibit
15		1 of my testimony. Each RSF is calculated to provide sufficient cash to meet the
16		Company's obligations over three years of reduced revenues resulting from wet weather
17		as well as 3 years of inflation at 3.0% in regard to the Material Operating Expenses.
18		These calculations detail a need for a total RSF amount of \$166,000. The Company
19		reduced the level of the MOERR RSF from \$166,000 to \$80,000 to reflect RSF funds
20		available to PAC in the amount of \$100,000 (See calculation of PAC's share of original
21		DW 11-026 RSF fund on \$5,000,000 on 1604.06 Schedule 1, Attachment A, Page 2.)
22		The Company's requested level for each RSF based on its request to implement a
23		Material Operating Expense Factor (MOEF) as part of this rate filing being approved.

1	Q.	How did you determine the revenue reduction associated with three years of wet
2		weather?
3	A.	The Company compared the 5-year average metered sales against the worst year of
4		metered sales during the past five years. This comparison results in a 6.42% reduction in

- 5 consumption. In calculating the revenue impact of this reduced consumption, the 6 Company adjusted the consumption related expenses by reducing them by 6.42%.
- 7 0. How does the Company plan to fund the initial Rate Stabilization funds?
- 8 A. The Company plans to fund the \$100,000 from its prorated share of the \$5,000,000 RSF 9 fund set up in DW 11-026, and as approved in Docket No. DW 16-806. If the MOEF sought by the Company is not approved as part of this rate filing, it would seek to 10 establish a combined RSF account at the full calculated amount of \$186,000. Mr. 11 Goodhue's testimony addresses the options that could be considered by the Company to 12 fund the \$86,000 shortfall between available and desired RSF fund levels.
- 13

14

Q. Please explain the purpose of the MOEF?

The MOEF is a contingency factor applied to the approved Material Operating Revenues A. 15 to ensure that the Company has sufficient cash flow from water sales under approved 16 rates to pay for material operating expenses for the years between rate case test years. In 17 the proposed rate structure, the Material Operating expense revenues are granted based 18 19 upon a pro forma adjustment to the Test Year expenses for known and measurable changes to the Test Year expenses which occur within 12-months of the end of the test 20 year. Given the normal progression of a rate case, which is typically filed 6 to 9 months 21 after the TY. And, assuming that the new permanent rates take effect at the date of 22 customer notice (typically between 7 to 11 months after the TY) the revenues granted in a 23

1		rate case, without a MOEF, are only sufficient to cover expense increases that occurred
2		within the first 12 months after the test year. The year after the filing (two years after the
3		TY) the revenues being collected are only sufficient to cover the expenses for the year
4		following the TY and if there are upward pressures on the material operating expenses,
5		year over year, the revenues being collect two years after the TY would be insufficient to
6		pay for expenses of that year. This shortage of revenues is further exacerbated during the
7		3 rd year after the test year as the revenues being collected are still based upon the pro
8		forma TY expenses which are now two-years old, resulting in a larger gap between
9		revenues collected and current year expenses. The rate making mechanisms approved in
10		DW 11-026 did not provide for this cash flow deficit, resulting in the Company having to
11		borrow money in the form of short-term debt to pay for the expenses not covered by the
12		collected revenues. There currently is no rate making mechanism which allows for the
13		Company to collect revenues needed to pay-off the short term debt incurred between rate
14		cases, which results from the inevitable deficit in cash created by the difference between
15		approved revenues based on test year expenses and actual expenses incurred in future
16		years between rate cases. The MOEF is a mechanism to provide the Company with the
17		cash flow to go three years between rate cases without having to borrow money to cover
18		increased operating expenses.
19	Q.	Wasn't the purpose of the RSF funds to provide operating cash necessary to cover
20		the shortfall between rate case granted revenues and increased operating expenses?
21	А.	No. The RSF was designed to cover cash short falls created by differences in revenues
22		and expenses that were either related to weather impacts or other economic factors

23 outside the Company's control. Experience with both Pennichuck Water Works and

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1		Pennichuck East Utilities show that when the cash from the RSF funds was used, in
2		accordance with DW 11-026, DW 16-806, DW 19-084 and DW 17-128, that these funds
3		were drawn down to \$0 between rate cases and forced those Companies to borrow money
4		on a short-term basis to bridge the cash gap between revenues that are fixed to a test year,
5		compared with expenses that were growing in a compounded fashion from those
6		approved for from the pro forma test year. The depletion of RSF funds, as investigated in
7		DW 19-084, was so large that the replenishment of the funds to their imprest values over
8		three years in the form of a deferred debit would have resulted in very large rate
9		increases. The MOEF is designed to minimize the usage of RSF cash; limiting it to usage
10		only to cover deficits created by a reduction in revenues associated with consumption
11		levels that fall below those used to establish the test year revenues.
	0	
12	Q.	How was the proposed MOEF factor level of 6.0% determined?
12 13	Q. A.	The proposed 6% MOEF, which would be recognized as part of the MOERR portion of
13		The proposed 6% MOEF, which would be recognized as part of the MOERR portion of
13 14		The proposed 6% MOEF, which would be recognized as part of the MOERR portion of allowed revenues, was designed to provide three years of material operating revenues that
13 14 15		The proposed 6% MOEF, which would be recognized as part of the MOERR portion of allowed revenues, was designed to provide three years of material operating revenues that would equal three years of upward trending material operating expenses. In the PAC
13 14 15 16		The proposed 6% MOEF, which would be recognized as part of the MOERR portion of allowed revenues, was designed to provide three years of material operating revenues that would equal three years of upward trending material operating expenses. In the PAC case, the calculation is detailed on DLW Exhibit 1 and is based upon a 3% per year
13 14 15 16 17		The proposed 6% MOEF, which would be recognized as part of the MOERR portion of allowed revenues, was designed to provide three years of material operating revenues that would equal three years of upward trending material operating expenses. In the PAC case, the calculation is detailed on DLW Exhibit 1 and is based upon a 3% per year change in operating expenses. The MOEF should result in the Company collecting more
13 14 15 16 17 18		The proposed 6% MOEF, which would be recognized as part of the MOERR portion of allowed revenues, was designed to provide three years of material operating revenues that would equal three years of upward trending material operating expenses. In the PAC case, the calculation is detailed on DLW Exhibit 1 and is based upon a 3% per year change in operating expenses. The MOEF should result in the Company collecting more MOERR revenues in the first year outside the rate case than required, with those funds
13 14 15 16 17 18 19		The proposed 6% MOEF, which would be recognized as part of the MOERR portion of allowed revenues, was designed to provide three years of material operating revenues that would equal three years of upward trending material operating expenses. In the PAC case, the calculation is detailed on DLW Exhibit 1 and is based upon a 3% per year change in operating expenses. The MOEF should result in the Company collecting more MOERR revenues in the first year outside the rate case than required, with those funds being deposited into the MOER RSF. In the second year outside of the rate case, it is
13 14 15 16 17 18 19 20		The proposed 6% MOEF, which would be recognized as part of the MOERR portion of allowed revenues, was designed to provide three years of material operating revenues that would equal three years of upward trending material operating expenses. In the PAC case, the calculation is detailed on DLW Exhibit 1 and is based upon a 3% per year change in operating expenses. The MOEF should result in the Company collecting more MOERR revenues in the first year outside the rate case than required, with those funds being deposited into the MOER RSF. In the second year outside of the rate case, it is projected that the MOERR revenues would essentially equal the MOE's for that year, and

Testimony of Donald L. Ware

1		covered by withdrawing cash from the MOER RSF, as deposited into the fund in year
2		one outside the test year. In an ideal world, assuming that the consumption each year
3		equaled the consumption used to develop the MOERR portion of allowed revenues, the
4		RSF would be back to its originally established level at the end of three years which
5		would also be the next Test Year for a rate case.
6	Q.	Is the Company doing anything to promote conservation by its customers?
7	А.	Yes. The Company continues to work with its customers with regards to sustainable
8		conservation efforts through the use of semi-annual mailings promoting water saving
9		fixtures, good water use habits and proper lawn irrigation practices. The Company is a
10		member of the EPA WaterSense program and uses its website to direct customers to the
11		EPA WaterSense program where there is an extension amount of information regarding
12		water conservation and water saving fixtures.
13	Q.	Is the Company continuing to see a reduction in base residential water use as a
14		result of conservation efforts by its customers?
15	A.	Yes. The average single-family water usage for the months of December through March,
16		which reflects indoor water usage patterns, has shown a drop in average monthly usage of
17		3.9% between 2015 and 2019.
18	Q.	Was a Cost of Service Study prepared as part of this case?
19	А.	No. The last cost of service study was prepared as part of DW 08-052-090. Because
20		there has been little change in the mix of customers, assets, and expenses since DW 08-
21		052, the Company believes that preparing a Cost of Service Study, expected to cost
22		between \$40,000 to \$50,000 is not justified and if required would have a very large
23		impact on rate case expense without a corresponding benefit.

26

Testimony of Donald L. Ware

Q. Please summarize the impact of the Company's rate increase request by Customer Class.

A. The Tariff pages and Report of Proposed Changes sheets which detail the impact or the
 rate increase by customer class are found in Tabs 14 and 7 of the filing. The Company
 proposes to spread the propose rate increase uniformly across all customers classes.

6 Q. How does the Company plan to notify its customers of the pending rate increase?

7 A. In accordance with Puc 1203.02(c) and (d), the Company will be notifying its customers

8 regarding the rate filing by providing a form of notice. The notice will be sent via a

9 direct mailing to its customers, along with a FAQ document, as further explained in Mr.

10 Goodhue's testimony. The notice will be sent to customer's prior to November 25, 2020.

11 The direct mailing will also include information pointing customers to the Company's

12 web page and to watch for a publication of notice regarding the suspension of the

13 Company's rates and the date of the prehearing conference. Additionally, when the

14 Commission issues the order to suspend the proposed tariffs and schedule a prehearing

15 conference, the Company will provide notification in area newspaper(s) in addition to the

16 individual customer notification.

17 Q. Do you have any other testimony to offer?

18 A. No.

Docket No. 20-153 Exhibit 1

6.00%

DLW Exhibit 1

Pennichuck East Utilities DW17-128 Calculation of Rate Stabilization Funds

Pittsfield Aqueduct Company **MOEF and RSF Analysis**

Notes-

PAC Proforma Test Year 2019 Proformed Rev 865,590 Material Operating Expense Revenu **Operating Expense** 1.0 Debt Service 0.1 Debt Service Requirement, inclusive CRERR of MOFF Revenue Requirment⁶ Reveue Requirment Reveue Requirment Requested MOEF -Revenue Requirement² - \$ 147,539 \$ 634,448 \$ 8.993 Ś 67,828 \$ 6,783 Percentage of Revenues 17 04% 73 30% 1 04% 7 84% 0.789 Rate increase @ requested MOEFF -11.18% Increase in Material Operating Expenses of 3.00 Years coverage -13,263 166,468 6.707 Annual MOEF Cash - \$ 35,912 Requested Rate Stabilization Fund by Revenue Category with no MOEF 3.4 - \$ Requested RSF funds with MOEF - \$ per year based on averge increase of these expense 13,000 \$ 166,000 No Stabilization Fund \$ 7,000 No Stabilization Fund 186,000 per year between 2015 and 2019. See Table below Requested Rate Stabilization Fund with MOEF - \$ 13,000 \$ 80.000 7,000 Requested RSF funds with no MOEF - \$ 100,000 for calculatio Based on largest negative variance from five year ave of -6.42% 2015 PAC Billed 2016 PAC Billed 2017 PAC Billed 2018 PAC Billed 2019 PAC Billed Calculation of MOER RSF, based on increase in Revenue Revenue Revenue Revenue Revenue MOE's over the past 5 years Increased Operating Total Volumetric Charges 340,641 375,283 368.712 368.777 358.687 Revenue Shortfall Expenses 210,961 212,466 211 513 18 986 Total Meter Charges 210 283 211 560 Vr 1 17 891 \$ 204,787 Total Fire Protection - Public & Private (fixed) 200.317 200.363 204.871 204.871 Yr 2 36.320 18.986 Total Billed Revenue 751,919 \$ 785,928 785,965 785,161 775,118 Yr 3 55,301 18.986 % of Revenues that are variable 45.3% 47.8% 46.9% 47.0% 46.3% 109,512 \$ 56,957 % of Revenues that are fixed 54.7% 52.2% 53.1% 53.09 53.7% Totals - \$ 166,468 Average percentage of revenues that were variable during the previous 5 years 46.6% 2015 PEU Actual 2016 PEU Actual 2017 PEU Actual 2018 PEU Actual 2019 PEU Actual Variable Expenses Variable Expenses Variable Expenses Variable Expenses Expense Type Variable Expenses Electri 5,121 4,532 5.013 5,157 8,032 Chemical 5.081 6.461 7.931 7.025 5.382 Total Variable Costs 10,202 10,993 12,944 12,182 13,414 Variable Expenses as a Percent of Total Revenue 1.69 1.4% 1.4% 1.7% 2015 Actual CCF's sold 2016 Actual CCF's sold 2017 Actual CCF's sold 2018 Actual CCF's sold 2019 Actual CCF's sold by PAC by PAC by PAC by PAC by PAC Annual Metered Sales (CCF) 58,012 57,01 57,01 55,342 -10.25% -1.749 -4.82% 0.009 -1.769 Percentage Variance between Current and High Consumption Year 56,001 Average Consumption (CCF) over the past five years -6.42% 1.77% -1.19% Variance between current and 5 Yr Ave Consumption 3.47% 1.78% Largest percentage reduction in volumetric sales at PAC of 6.42% over the past five years from the five year average of volumetric sales 23.044 Results in a Revenue loss of \$ Results in an Operating Expense reduction of 862 Results in an Operating Income reduction of \$ 22.182 Calculation of Annual Material Operating Expense Adjustment Percentage erage annual increas Increase in Operating Increase in Operating 2015 PAC Material 2016 PAC Material 2017 PAC Material 2018 PAC Materia 2019 PAC Material Expense over the past in Operating Expenses Expense between 2018 and 2019 Operating Expenses Operating Expenses Operating Expenses Operating Expenses Operating Expenses four years over the past four years Production Expension 79.277 89.625 116 76/ 128.290 131.316 65.6 13,45% 2 36% -17.11% Transmission & Distribution Expenses 64.630 70.985 82.996 73 811 61.179 -5.39 -1.369 3.029 Customer Acct & Collection Exp 13,846 14,814 18,126 12,552 15,594 12.69 24.24% 31,900 17,877 26,789 -4.279 11.72% Administrative & General Expense 19,654 23,978 -16.09 Inter Div Management Fee 133,199 157,305 172,080 183,320 174,177 30.89 6.949 -4.99% Amortization Expense 3 5 8 3 3.161 3 088 3 0.85 3 086 -13.99 -3.66% -0.06% 238.923 211.656 188 950 16.79 3 949 -10.05% Property Taxes 161.883 210.06 Total Annual MOERR Expense 5.33% 488.318 592.690 624.364 635.103 601.091 23.19 -5.36% 7.089 10.11% Less change in variable expenses over prior yea 10,202 10,993 12,944 12,182 13,414 31.59 Total Annual MOERR Expenses less variable expense 478.116 Ś 581.697 \$ 611.420 \$ 622.921 587.677 22.99 5.29% -5.66% Total Percentage Increase in Fixed Material Operating Expenses over the past four years 22.92% Average annual increase in Material Operating expenses over the past four years -5.29% Average annual increase in Material Operating expenses over the past three years -0.34% 1.10 per Sch A of 1604.06 schedules 1. Based on Debt Service Multiplier of 2. Revenue requirements per Sch A of 1604.06 schedules 3. Requested Rate Stabilization fund for Operating Expense and P & I Coverage each have a contingency of 0% based on % of PAC revenues (2012 Case) to % of all three regulated utilities revenues (2012 TY Cases) or \$ 100,000 4. PAC share of the \$5,000,000 RSF for distribution to the RSF, MOERSF and the P&IRSF is⁵ 2.11% 5. Calculation of RSF Pecentage based on Revenue requirements from DW13-126, 13-128 and 13-130 6. For Calculation of Operating Expense Requirement see DLW Exhibit 1.1 PWW Revenue Requirment - \$ 27,689,214 per DW13-130 Settlement Agreement PEU Revenue Requirement - \$ 6,913,261 per DW13-126 Settlement Agreement PAC Revenue Requirement -745,186 per DW13-128 Settlement Agreement Total Utility Revenue Requirement - \$ 35.347.661

DLW Exhibit 1.1

Pittsfield Aqueduct Company Non Material Operating Expenses as defined in DW17-128 For the Twelve Months Ended December 31, 2019

		January	February	March	April	May	June	July	August	Septembe	October	Novembe	December		2019 Totals
921002 921002	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
921003 921003	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
921004 921004	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
923000 923000	OUTSIDE SERVICES	-	-	-	1	-	-	8,971	-	-	-	-	-	8,972.36	8,972.36
926001 926001	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
926500 926500	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
926501 926501	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
926502 926502	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
926505 926505	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
926600 926600	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
926610 926610	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
930100 930100	#N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
930101 930101	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
930200 930200	PUBLIC RELATIONS	-	-	-	-	-	-	-	-	-	-	-	20	20.18	20.18
930300 930300	MEALS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
930410 930410	CHARITABLE CONTRIBUTIONS	-	-	-	-	-	-	-	-	-	-	-	-		-

Total of Non RSF backed O&M Expenses - \$ 8,992.54

TAB 11

Petition for Further Modification of Ratemaking Structure

STATE OF NEW HAMPSHIRE PUBLIC UTILITIES COMMISSION

Docket No. DW 20-153

PITTSFIELD AQUEDUCT COMPANY, INC.

Permanent Rate Proceeding

PETITION FOR FURTHER MODIFICATION TO RATEMAKING STRUCTURE

Pittsfield Aqueduct Company, Inc. (PAC), in accordance with N.H. Admin. Rule Puc 203.06 (relative to petitions) and N.H. Rev. Stat. Ann. 378:28 (relative to permanent rates), and N.H. Rev. Stat. Ann. 365:28 (relative to modification of orders) hereby requests that the New Hampshire Public Utilities Commission (Commission) grant further modifications to PAC's ratemaking methodology, as described below. In support of its petition, PAC states:

Background

1. On September 17, 2020 PAC filed its notice of intent to file rate schedules, pursuant to N.H. Code Admin. R. PART Puc 1604.05. Pursuant to Puc 1604.05, utilities must give the Commission 30-days notice of its rate changes and must file any full rate case within sixty days of filing the notice of intent. The thirty-day filing window commenced October 17, 2020, however, because that date fell on a day that the Commission is not open for business, pursuant to Puc 202.03 (computation of time), the next business day for the thirty-day filing window to commence was October 19, 2020. Sixty days from the filing of the notice of intent is Monday, November 16, 2020.

2. Contemporaneous with this petition and pursuant to PART Puc 1604, PAC is filing its supportive testimony, filing requirement schedules, rate of return schedules, full rate case schedules, tariffs, and rate case expense summary prior to the November 16, 2020 deadline. Pursuant to RSA 378:1 and RSA 378:3, the rate filing sets in motion PAC's increase in its

permanent rates after the thirty day's notice. Those rates are based on PAC's calculation of its revenue requirement.

History of Evolution of Ratemaking Methodology for Pennichuck Utilities

3. In Order No. 25,292 (November 23, 2011), in Docket No. DW 11-026, the Commission approved the acquisition of PAC's parent company, Pennichuck Corporation, by the City of Nashua (City). That acquisition was completed on January 25, 2012, whereby Pennichuck Corporation ceased to be a publicly traded company. The City became Pennichuck Corporation's sole shareholder with a "limitation on Nashua's ability to draw dividends or other distributions from Pennichuck Corporation" (Order No. 25,292 at page 45). That limitation means there is no ability to sell stock and Pennichuck Corporation and its affiliates no longer have access to the equity markets for financing; they only have access to debt.

4. As part of the acquisition, the Commission approved a modified ratemaking structure for PAC, Pennichuck East Utility, Inc. (PEU), and Pennichuck Water Works, Inc. (PWW). That modification enabled those regulated utilities to earn a reasonable return on invested assets through a ratemaking methodology that produced just and reasonable customer rates, as required under *FPC v. Hope Natural Gas*, 320 U.S. 591, 602-603 (1944). That ratemaking structure included a City Bond Fixed Revenue Requirement (CBFRR) component which allowed the utilities to repay the City's acquisition bonds and Municipal Acquisition Regulatory Asset (MARA)¹. The latter was an equity-related item approved in the revenue requirement and represented the excess of the City's purchase price over the book value of the assets of Pennichuck Corporation. The purchase price was equal to the price the City paid for the shares including all transaction and debt financing cost plus all of the existing liabilities assumed. This

¹ It is relevant to note that once the City bond is fully repaid, the CBFRR will be reduced to zero. This is estimated to occur in the year ---.

aggregate MARA is allocated among the Pennichuck Corporation subsidiaries, including the regulated utilities PAC, PEU, and PWW. In addition, the ratemaking structure included a \$5,000,000.00 Rate Stabilization Fund (RSF) designed to provide assurance to creditors that Pennichuck Corporation's regulated utilities would meet the City's bond repayment requirements. *See Joint Petition of Nashua, Pennichuck Corporation, et al*, Order No. 25,292 at 30 (November 23, 2011) ("the fund is intended to provide holders of the City Acquisition Bonds with reasonable assurances of the available cash to be used to pay debt service on the City Acquisition Bonds, similar to a debt service reserve fund, and will hence facilitate Nashua's ability to borrow funds at reasonable interest rates, which will directly benefit customers in the form of a lower cost of capital").

5. In Docket Nos. DW 13-128, DW 13-126, and DW 13-130, the Commission modified this unique ratemaking structure in PAC, PEU, and PWW's rate cases. In those proceedings, the Commission established, among other things, the value of equity-related items and determined how the return on equity would be calculated. See Order No. 25,695 for PAC dated July 22, 2014; Order No. 25,696 for PEU dated July 25, 2014; and Order No. 25,693 for PWW dated July 15, 2014. The Commission also approved other fine tunings of the revenue requirement by approving the settling parties' resolution of what constituted non-revenue producing assets, the amount of eminent domain costs, and final actual total of the MARA. *Id*.

6. In Docket Nos. DW 16-806 for PWW's general rate proceeding and DW 17-128 for PEU's general rate proceeding, and with the aid of additional years of experience with the unique ratemaking structure, the Commission again approved further modifications. In particular, the Commission approved operating expense revenue requirement components: (a) Material Operating Expense Revenue Requirement (MOERR); and (b) Non-material Operating Expense

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Revenue Requirement (NOERR)². The Commission approved debt service revenue requirement components: (a) Debt Service Revenue Requirement-1.0 (DSRR-1.0), and (b) Debt Service Revenue Requirement-0.1 (DSRR-0.1)³. Similar to the rate stabilization fund for the CBFRR, the Commission approved rate stabilization funds for the MOERR (MOERR-RSF) and DSRR-1.0 (DSRR-1.0-RSF). It is relevant to note that the creation of these additional RSFs involved reallocating the original \$5,000,000.00 imprest value of the CBFRR RSF among PAC, PEU, and PWW as well as allocating to the newly-created RSFs.⁴ See Order No. 26,070 for PWW dated November 7, 2017 and Order No. 26,179 for PEU dated October 4, 2018. The Commission also approved a five-year average test year period for PEU and PWW. *Id.* The ratemaking modifications were designed to provide: 1) stability to customer rates, 2) assurance to creditors of PEU and PWW's operating needs, and 4) enhancement to PWW's credit rating. All of which were anticipated to increase the ability to access the credit markets and obtain lower-cost debt financing.

7. In Docket No. DW 19-084, the Commission approved additional changes to the ratemaking structure. This time, it approved a Material Operating Expense Factor (MOEF) to

² The MOERR consists of all of the operating expenses included in an Operating Expense Revenue Requirement (OERR) with the exception of those expenses specified as Non-Material Operating Expense Revenue Requirement items.

³ The DSRR-0.1 is intended to provide a 10% over-cover for annual debt service obligations in order to satisfy debt lending requirements.

⁴ Initially, \$1.08 million of the original \$5 million RSF was allocated to PEU and PAC (\$980,000 of which was subsequently allocated to PEU in Docket No. DW 17-128) to assist those utilities in meeting their cash needs. The remaining \$3.92 million of the original RSF retained by PWW was then apportioned among three reserve funds to provide additional coverage for the specific cash flow needs in its modified revenue requirement: (1) CBFRR-RSF (PWW's obligation relative to the City's acquisition bond) – \$680,000; (2) MOERR-RSF (PWW's material operating expenses) – \$2,850,000; and (3) DSRR-1.0-RSF (PWW's debt service requirements) – \$390,000. The reapportionment of PWW's RSF funds was specifically designed to provide stability to customer rates even under adverse conditions, as it could draw on those funds to meet its cash obligations under such conditions.

the MOERR⁵. See Order No. 26,383 for PWW dated July 24, 2020. As is discussed more fully in the testimony of Mr. Larry Goodhue, the MOEF was necessary to signal to rating agencies that PWW will have the necessary cash coverage to meet its operating expenses. The Commission also approved other changes to the ratemaking structure. They included: (1) modification to the calculation of the 5-year average for revenues⁶; (2) inclusion of actual NHBET cash payment in revenue requirement⁷; (3) re-prioritization of usage of available DSRR-0.1 funds; (4) recovery of State Revolvoing Loan Fund and Drinking Water Groundwater Trust Fund debt issuance costs; and (5) re-establishment of imprest levels of RSF accounts retention of a previously approved reconciliation mechanism.

8. Finally, because PAC's revenues largely met its expenses, PAC did not seek a rate increase in 2016/2017 as PWW and PEU did. It has not had a full general rate case since the 2013 docket. Therefore, the modifications to PWW and PEU's ratemaking structure in Docket Nos. DW 16-806 and DW 17-128, as well as the latest modifications in Docket No. DW 19-084, have not yet flowed to PAC. PAC seeks to adopt these modifications in the instant rate filing.

⁵ The intended purpose of the MOEF is to sufficiently enhance the MOERR portion of allowed revenues to better enable adequate cash flow coverage between rate cases for increases in material operating expenses. The MOEF helps maintain the MOERR-RSF at its established imprest level. Thus, in each rate proceeding, the MOEF would be re-established in conjunction with the MOERR-RSF. It is anticipated that doing so would enable the MOERR-RSF to become a more effective buffer against unanticipated revenue fluctuations due to weather as well as the impact of regulatory lag experienced by the Company, which, for PWW, is exacerbated by the fact that it is a debt-only financed utility.

⁶ In this modification, an Atypical Year is defined as one in which that year's water consumption either exceeds or falls short of the calculated trailing 5-year average of water consumption by more than 15%. When an Atypical Year occurs in the 5-year average, the Atypical Year's data is replaced with data from the next most recent preceding typical operating year's data. The underlying trailing 5-year average, however, is calculated with the Atypical Year before assessing whether there is an Atypical Year.

⁷ This modification addresses recent Federal tax law changes that result in a more rapid exhaustion of available Net Operating Loss (NOL) carryforwards that offset current taxable income. Additionally, the regulated utilities incur actual cash payments relative to both the corporate NH Business Profits Tax (BPT) and NH Business Enterprise Tax (BET), regardless of NOL carryforwards. The modification allowed PWW to include in the MOERR the actual cash cost of taxes for the NHBET.

Why the Ratemaking Changes are Necessary for PAC

9. The reasons for the modifications to PAC's ratemaking structure are detailed in the testimonies of Mr. Larry Goodhue and Mr. Donald Ware and mirror concerns expressed by PWW and PEU in their above-noted rate cases. As the Commission is aware, the Pennichuck Corporation's regulated utilities are heavily debt-weighted in their capital structure. Although this form of capital is cheaper than equity and, ultimately, benefits ratepayers, the major credit rating agencies have been cautious as the regulated utilities navigate the new capital structure and ratemaking methodologies. In discussions with the Company's investment bankers about these modifications to the ratemaking structure, the Company concluded that the modifications would increase access to the credit markets, and most likely at an enhanced credit ratings, as well as expand access to lower cost debt, which in turn benefits customers. In general, if lenders have reasonable expectations that future rates will be more directly related to the Company's longterm, post-acquisition debt-based capital requirements and create sustainable cash coverage, then they will lend to the Company and its Parent on more beneficial terms. Because PAC obtains much of its financing as inter-company loans, the benefit of the lower credit rating PAC's affiliates obtain also flows through to PAC and its customers. Therefore, the same arguments the companies made for PWW and PEU's adoption of the modifications to the ratemaking structure also apply to PAC.

10. The need for the requested ratemaking structure modifications is readily illustrated in PAC's debt schedules. See Puc 1604.08(c) schedules at rate filing Tab 13 (Schedule 5 and Schedule 6). PAC has \$1.1 million in outstanding intercompany loans. As explained by Messrs. Goodhue and Ware, PAC presently lacks a revenue mechanism to enable it to repay this intercompany debt. This lack of cash flow is analogous to PWW's situation explained in Docket

6

No. DW 19-084 where PWW experienced a significant draw-down of its operating expense rate

stabilization fund. Although PAC does not have a MOERR and associated RSF, its large

intercompany loan balance reflects the same cash flow connundrum.

11. To address the cash coverage concerns and the intercompany loan issue, as well as to

bring uniformity as to how the revenue requirements are calculated for all Pennichuck

Corporation regulated utilities (as was originally envisioned in the acquisition docket, DW 11-

026, and in the 2013 rate cases), PAC requests that the Commission modify PAC's present

ratemaking structure to include:

- (1) a MOERR, MOEF, and associated RSF;
- (2) a NOERR;
- (3) a DSRR-1.0 and associated RSF;
- (4) a DSRR-0.1;
- (5) a five-year average test period;
- (6) actual NH Business Enterprise Tax cash payments in the revenue requirement;
- (7) prioritization of usage of available DSRR-0.1 funds;
- (8) recovery of State Revolvoing Loan Fund and Drinking Water Groundwater Trust Fund debt issuance costs; and
- (9) re-establishment of imprest levels of RSF accounts retention of a previously approved reconciliation mechanism.

Conclusion

12. In light of PAC's revenue deficiency, its need for adequate and sustainable cash flow,

PAC respectfully requests the Commission allow it to modify its ratemaking structure with the

above-described targeted changes and charge rates based on that ratemaking structure.

WHEREFORE, Pittsfield Aqueduct Company, Inc. respectfully requests the

Commission:

- Grant this petition for further modification of PAC's ratemaking structure; and A.
- B. Grant such other relief as is just and equitable.

Respectfully submitted,

PITTSFIELD AQUEDUCT COMPANY, INC.

By its Attorneys,

N.H. Brown Law, PLLC

Date: November 16, 2020

Mauria aBrown By:

Marcia A. Brown, Esq. NH Brown Law, PLLC 20 Noble Street Somersworth, NH 03878 (603) 219-4911 mab@nhbrownlaw.com

Certificate of Service

I hereby certify that on this day, a copy of this petition has been emailed to the Docket-Related Service List for this proceeding.

Date: November 16, 2020

Mauria & Brown, Esq.

TAB 12

1604.06 and 1604.07 Filing Requirement Schedules

PITTSFIELD AQUEDUCT COMPANY, INC. COMPUTATION OF REVENUE DEFICIENCY For the Twelve Months Ended December 31, 2019

Schedule A Perm-Conventional

	Т	TEST YEAR	RO FORMA JUSTMENTS	PRO FORMA TEST YEAR
Consolidated Rate Base (Sch 3)	\$	3,234,472	\$ (2,263,803)	\$ 970,669
RATE of Return (1)		3.81%		3.81%
Income Required	\$	123,107		\$ 36,945
Adjusted Net Operating Income (Sch 1)	\$	46,620	\$ (47,800)	\$ (1,180)
Deficiency	\$	76,487		\$ 35,765
Tax Factor (2)		72.92%		72.92%
Revenue Deficiency	\$	104,896		\$ 49,048
Water Revenues	\$	771,874	\$ (147,539)	\$ 624,336
Add: City Bond Fixed Revenue Requirement	\$	-		\$ 147,539
Water Revenues with CBFRR	\$	771,874		\$ 771,874
Proposed Revenue Inc.		13.59%		6.35%
New Revenue Levels	\$	876,770		\$ 820,922

Notes:

(1) See Schedule 1 in the 1604.08 Schedules

(2) See Tax Factor Tab in 1604.06 schedules

Pittsfield Aqueduct Company Schedule A Computation of Revenue Deficiency For The Twelve Months Ended December 31, 2019

			C 141				2017				Schedule A Ptroposed
	12 Months Ending 12/31/19			A	PRO FORMA Adjustments to 2019 Test Year		PRO FORMA 12 Months Ending 12/31/19	A	Perm Rate PRO FORMA Adjustments based on FIVE YEAR AVE		erm Rate Based a Five Year Ave
City Bond Fixed Revenue Requirement (CBFRR)	\$	147,539	(1)	\$	-		\$ 147,539	\$	-	\$	147,539
Material Operating Expense Revenue Requirement (MOERR)	\$	605,988	(2)	\$	(7,518) (4	4)	\$ 598,470	\$	66	\$	598,536
Material Operating Expense Factor (MOEF)		1.0					1.0				1.060
Material Operating Expense Revenue Requirement (MOERR)	\$	605,988					\$ 598,470			\$	634,448
Non Material Operating Expense Revenue Requirement (NOERR)	\$	8,993		\$	-		\$ 8,993	\$	-	\$	8,993
Debt Service Revenue Requirement (DSRR 1.0)	\$	67,791	(3)	\$	36		\$ 67,828	\$	-	\$	67,828
Principal and Interest Coverage Requirement		1.00			1.00		1.00		-		1.10
Total Debt Service Requirement with 0.1 DSRR included	\$	67,791		\$	36	=	\$ 67,828	Ş	-	\$	74,611
Revenue Requirement	\$	830,311		\$	(7,482)		\$ 813,837	\$	66	\$	865,590
Less Other Operating Revenues	\$	2,663		\$	-	=	\$ 2,663	Ş	-	\$	2,663
Revenues required from Customer Classes	\$	827,648		\$	(7,482)		\$ 811,174	\$	66	\$	862,927
Total Current Revenues, exclusive of other revenues and excluding CBFRR	\$	624,336		\$	-		\$ 624,336	Ş	4,270	Ş	628,606
Add: City Bond Fixed Revenue Requirement	\$	147,539		\$			\$ 147,539	Ş	_	\$	147,539
Current Water Revenues with CBFRR	\$	771,874		\$	-	_	\$ 771,874	\$	4,270	\$	776,144
Proposed Percent Revenue Increase		7.23%					5.09%				11.18%

1.10

Principal and Interest Coverage Requirement -

Notes:

(1) The CBFRR includes the revenues necessary to repay the City Bond per 1604.06 Sch 1 Attach A Pg 2

(2) Operating Expense Revenue requirement is the sum of the Total Operating Expenses, Property Tax Expense, and Amortization Expense from 1604.06 Sch 1

(3) Annual Principal and Interest payments for debt associated with all plant in service as of 12/31/2019 per 1604.08, Schedule 5

(4) 2019 Test Year Proforma per 1604.06 Sch 1

(5) Annual Principal and Interest payments for repayment of intercompany debt as of 12/31/2019 per 1604.08, Schedule 5

Docket No. 20-153 Exhibit 1

Rate of Return - Sch 1A

Pittsfield Aqueduct Company Overall Rate of Return For the Twelve Months Ended December 31, 2019

Capital Component	Amount	Ratio	Rate		Average Cost <u>Rate</u>
Long-term Debt	\$ 1,312,186	64.58%	3.25%	(2)	2.10%
Intercompany Debt (3)	\$ 14,674	0.72%	3.31%		0.02%
Preferred Stock	\$ -	0.00%	0.00%		0.00%
Common Equity Overall Rate of Return	\$ 705,066 2,031,926	34.70% 100.00%	4.85%	(1)	1.68% 3.81%
Notes:					

(1) The return on equity based on Order 25,292 in DW 11-026 is as follows: Average 2019 30 year Treasury bonds 1.85% Plus 3.0% 3.00% Total 4.85% (2) P. O. L. 25 220 i. DW 40.001 d. i.e. a second second

(2) Per Order 25,230 in DW 10-091, the interest rate as reflected on Schedules 5 is calculated on debt net of debt issuance costs

PITTSFIELD AQUEDUCT COMPANY, INC.

OPERATING INCOME STATEMENT

For the Twelve Months Ended December 31, 2019

Schedule 1

Perm-Conventional

	Account Number	Μ	TWELVE MONTHS 12/31/19		PRO FORMA ADJUSTMENTS			FORMA 12 ONTHS 2/31/19	TWELVE MONTHS 12/31/18		WELVE ONTHS 2/31/17
Water Sales Other Operating Revenue	461 & 462 4 ⁷ /1	\$	771,874 2,663	\$	(147,539)	(8)	\$	624,336 2,663	\$ 788,388 3,171	\$	788,657 3,435
Total Revenues			774,537		(147,539)			626,999	791,559		792,092
Production Expenses	601 to 652		131,316		1,537	(1)		132,853	128,290		116,764
Transmission & Distribution Expense	660 to 678		61,179		3,117	(2)		64,296	73,811		82,996
Customer Acct & Collection Exp	902 to 904		15,594		(422)	(3)		15,173	12,552		18,126
Administrative & General Expense	920 to 950		26,789		623	(2)		27,413	23,978		19,654
Inter Div Management Fee	930	_	174,537		1,385	(3)		175,922	183,320		172,080
Total Operating Expense			409,416		6,241			415,657	421,952		409,621
Depreciation Exp/Acq Adj (Credit)	403		101,572		(27,111)	(4)		74,462	101,836		103,390
Amortization Expense: CIAC	405		(22,985)		-			(22,985)	(22,986)		(23,072)
Amortization Expense	407		37,435		(34,349)	(5)		3,086	36,630		35,923
Property Taxes	408.1		187,692		(230)	(6)		187,462	181,659		211,656
Income Tax	409 to 410		14,787		(44,289)	(7)		(29,502)	110,837		17,053
Total Operating Deductions			318,501		(105,979)			212,522	407,975		344,950
Net Operating Income		\$	46,620	\$	(47,800)		\$	(1,180)	\$ (38,368)	\$	37,521

Notes:

(1) adjust production expenses for personnel and salary increases and electricity per Schedule 1, Attachment B

(2) adjust distribution expenses for personnel and salary increases per Schedule 1, Attachment C

(3) adjust for customer account and collection costs per Schedule 1, Attachment D

(4) adjust depreciation for additions/deletions to plant assets and the elimination of equity related assets per Schedule 1, Attachment K

(5) adjust amortization expenses for the elimination of the amortization of the acquisition premium.

(6) adjust property taxes for additions/deletions to plant assets and valuation adjustment per Schedule 1, Attachment G

(7) reflect income tax effect on proforma adjustments calculated per Schedule 1, Attachment L

(8) adjust revenue to eliminate City Bond Fixed Revene Requirement (CBFRR) per Schedule 1, Attachment A, Page 1

PITTSFIELD AQUEDUCT COMPANY OPERATING INCOME STATEMENT For the Twelve Months Ended December 31, 2019

	Account Number	TWELVE MONTHS 12/31/19	PRO FORMA Adjustments to Test Year		PRO FORMA 12 MONTHS 12/31/19		PRO FORMA Adjustments based on Five Year Ave		Perm Rate Based on Five Year Ave	TWELVE MONTHS 12/31/18	мо	TELVE NTHS /31/17
Water Sales	460 to 462 471	\$ 771,874 2 663	\$ -		\$ 771,874	\$	4,2 70	(9)	\$ 776,144 \$ 2663		\$	788,657
Other Operating Revenue Total Revenues	4/1	2,663 774,537	-		2,663 774,537		4,270	-	\$ 2,663 778,807	3,171 791,559		3,435 3,435
Operating Expenses												
Production Expenses	601 to 652	131,316	1,537	(1)	132,853		66	(10)	132,919	128,290		116,764
Transmission & Distribution Expenses	660 to 678	61,179	3,117	(2)	64,296		-		64,296	73,811		82,996
Customer Acct & Collection Exp	902 to 904	15,594	(422)	(3)	15,173				15,173	12,552		18,126
Administrative & General Expense	920 to 950	26,789	623	(4)	27,413				27,413	23,978		19,654
Inter Div Management Fee	930	174,537	1,385	(5)	175,922				175,922	183,320		172,080
Amortization Expense	407	3,086	-	(6)	3,086				3,086	3,088		3,088
Property Taxes	408.1	187,692	(230)	(7)	187,462				187,462	181,659		211,656
Income Tax	409 to 410	14,787	(13,529)	(8)	1,258		-		1,258	110,837		17,053
Total Operating Expense		614,981	(7,518)		607,463		66		607,529	717,535		641,418

Notes:

(1) adjust production expenses for personnel and salary increases and electricity per Schedule 1, Attachment B

(2) adjust distribution expenses for personnel and salary increases per Schedule 1, Attachment C

(3) adjust for customer account and collection costs per Schedule 1, Attachment D

(4) adjust for Admin & General expenses per Schedule 1, Attachment E

(5) adjust Management Fees Schedule 1 Attachment F

(6) adjust amortization expenses for additions/deletions and eliminations to deferred charges per Schedule 1, Attachment H

(7) adjust property taxes for additions/deletions to plant assets and valuation adjustment per Schedule 1, Attachment G

(8) reflect income tax effect on proforma adjustments calculated per Schedule 1, Attachment J

(9) normailze test year revenues to reflect 5 Year Ave slaes per Schedule 1C

(10) normailze test year production expenses to reflect of the 5 Year Ave per Schedule 1, Attachment B

Schedule 1 Proposed

Pittsfield Aqueduct Company	Schee					
Pro Forma Adjustment Income or Expense	Attachr					
Total Revenues		Page 1				
For the Twelve Months Ended December 31, 2019		-				
I Water Sales						
A. Per Order 25,292 in DW 11-026, the following pro forma adjustment elimates the annualized water sales associated with the City Bond Fixed						
Revenue Requirement (CBFRR). Includes PAC payment for its share of						
the \$5,000,000 Rate Stabilization Fund per Sch 1 Attach A Pg 2						
Therefore:						
	\$	(147,539)				
TOTAL WATER SALES PRO FORMA:	\$	(147,539)				

Pittsfield Aqueduct Company	Schedule 1
PRO FORMA Adjustments to Revenue Requirement	Attachment A
Calculation of PAC's share of City Bond Fixed Revenue Requirement	Page 2

Revenue

1 To recognize adjustment of fixed annual revenue requirement to meet City Bond obligation.

Total City Bond	\$	150,570,000				
Bond Interest Rate		4.09%				
Bond Period		30 yrs.				
Total City Bond	¢	150,570,000				
Less Rate Stabilization fund	Ψ	\$5,000,000				
Amount of City Bond to be prorated between Utilities CBFRR	\$	145,570,000				
PAC Share of CBFRR		1.66%				
PAC Prorata share		\$2,423,594				
Add back PAC Pro Rata Share of Rate Stabilization Reserve	\$	100,000				
Total PAC Pro Rata Share for CBFRR/MARA	\$	2,523,594				
Bond Interest Rate		4.09%				
Bond Period		30 y	rs.			
PAC CBFRR Revenue Requirement	\$	147,539				
-						

Notes:

(1) Pro Rata Calculation as follows:

PWW & Southwood Equity (12/31/2011) (2)	\$ 56,442,675	88.12%
PEU Equity (12/31/2011)	\$ 6,540,063	10.21%
PAC Equity (12/31/2011)	\$ 1,066,353	1.66%
	\$ 64,049,091	100.00%

5. Calculation of RSF Pecentage based on Revenue requirements from DW13-126, 13-128 and 13-130

RSF amount funded by City Bond -	\$ 5,000,000		
PWW Revenue Requirment -	\$27,689,214	per	DW13-130 Settlement Agreement
PEU Revenue Requirement -	\$6,913,261	per	DW13-126 Settlement Agreement
PAC Revenue Requirement -	\$745,186	per	DW13-128 Settlement Agreement
PAC Share of RSF as a percentage -	2.11%		
PAC Share of RSF in \$\$ -	\$ 100,000		
(2) Consists of Equity as of 12/31/2011 as follows:			
PWW		\$	54,395,626
Southwood		\$	2,047,049
Total		\$	56,442,675

	Pittsfield Aqueduct Company Pro Forma Adjustment Income or Expense Production Expenses For the Twelve Months Ended December 31, 2019		Schedule 1 Attachment B
		Test Year Proformas	Proformas based on 5 Year Ave.
I Union Contract			
	 A. In 2018, the Company signed a three year contract with the United Steelworkers Union which called for a 3.45% increase 1/1/2020. To calculate the pro forma adjustments for Production union payroll, the payroll data was extracted from the work order detail report for the year 2019. (See Schedule 1B) 		
	Wage increase granted on 01/1/20 1,010 Benefits 66.20% 668 \$ 1,678		
	Therefore:	\$ 1,678	
II Operating and Mainte	enance Expenses:		
	B. During 2019, the Company negotiated a new electricity supply charge rate (per kilowatt hour) effective November 1, 2019 for G and GV Accounts The calculation of the pro forma adjustment is as follows:		
	2019 Purchased 2019 Total KWH Power Total \$\$ 2019 Supply Rate 2020 Supply Rate Decrease		
	31,192 \$ 8,032 \$ 0.07403 \$ 0.06950 \$ (141) Therefore:	\$ (141)	
	C. Adjustment to Electric supply charge associated with 5 Year Average Flows		
	% Change from 2019 TY to 5 Yr Change in Electric 2019 Total KWH Ave. Change in KWH 2020 KWH Rate Supply Costs		
	31,192 3.47% 1,081 0.06095 66 Therefore: 3.47% 1,081 0.06095 66		\$ 66
TOTAL PRODUCTI	ON EXPENSES PRO FORMA:	\$ 1,537	\$ 66

Pittsfield Aqueduct Company Pro Forma Adjustment Income or Expense Transmission and Distribution Expenses For the Twelve Months Ended December 31, 2019	Schedu Attach	ile 1 ment C
I Union Contract		
A. In 2019, the Company signed a two year contract with the		
United Steelworkers Union which called for a 3.45% increase		
1/1/2020.		
To calculate the pro forma adjustments for Distribution union		
payroll, the payroll data was extracted from the work order detail		
report for the year 2019. (See Schedule Union 1B)		
Wage increase granted on 01/1/20 1,875		
Benefits 66.20% 1,241		
\$ 3,117		
Therefore:	\$	3,117
TOTAL TRANSMISSION AND DISTRIBUTION EXPENSES PRO FORMA:	\$	3,117

Schedule 1 Attachment D

Pittsfield Aqueduct Company Pro Forma Adjustment Income or Expense Customer Account and Collection Expense For the Twelve Months Ended December 31, 2019

I Customer Account and Collection

A. In October of 2020 the cost of bill and notice processing decreased/increased in accordance with the Company's vendor change from Curtis1000 to DMM. Theses cost increases were partially offset by a decrease in postage. The following pro forma adjustment annualizes the impact on costs as follows:

							Rate			
Activity	Quantity ¹		2020 Rate	2	019 Rate		Change	Pro Forma		
Bill (Paper, Print and Insert)	7,534	\$	0.1250	\$	0.1400	\$	(0.02)	\$ (113)		
Notice (Paper, Print and Insert)	876	\$	0.3400	\$	0.1400	\$	0.20	\$ 175		
Bill Envelopes	8,410	\$	0.0270	\$	0.0375	\$	(0.01)	\$ (88)		
Bill Return Envelope	8,410	\$	0.0235	\$	0.0339	\$	(0.01)	\$ (87)		
								\$ (113)		
Bill Postage	7,534	\$	0.4090	\$	0.4500	\$	(0.04)	\$ (309)		
Notice Postage	876	\$	0.4500	\$	0.4500	\$	-	\$ -		
								\$ (309)		
				То	otal Decrease	e in	expenses	\$ (422)		
Therefore:									\$	
	Total Custon	ner	Account and	Colle	ection Pro H	orr	na:		\$ ((

1. Number of bills processed in 2019

Pittsfield Aqueduct Company Pro Forma Adjustment Income or Expense Administrative and General Expense For the Twelve Months Ended December 31, 2019

Schedule 1 Attachment E

I Insurance

A. In 2020 the Company's insurance expense is increased.

The pro forma adjustment to reflect the increased costs is as follows:

2019 Insurance Expense	\$ 10,654	
2020 Insurance Expense	\$ 11,196	
	\$ 542	
Therefore:		\$ 542

II Regulatory Commission Expense

Α	In 2019, the Company recorded regulatory commission expens	e		
	based on quarterly assessments. Based on the latest assessment	,		
	the Company expects to incur higher levels in 2020 as follows:			
	2019 Regulatory Expense	\$	2,985	
	2020 NHPUC Annual Assessment	\$	3,066	
	Therefore:	\$	81	
				\$ 81
	TOTAL ADMINISTRATIVE & GENERAL EXPENSE	PRO	FORMA:	\$ 623

			chment]
Ianagement Fee Allocated to Affiliates (Rule 1601.01, Section	n 26)		
A In the test year, PWW adjusted compensation for non-union & wages that occurred on April 1, 2020 per Sch Non Union A portion of the increases will flow through the management and be allocated to PAC including benefits, as follows:	1B.		
Non Union Payroll Pro Forma	\$ (88,648)		
Benefits Pro Forma	\$ (45,432)		
Total Pro Forma	\$ (134,080)		
% Allocated to PAC	1.42% \$ (1,904)		
Therefore:		\$	(1,904
adjustment annualizes the current lease payments: 2020 Estimated Expense 2019 Lease Expense Increase in Lease Expense % Allocated to PAC Therefore:	\$ 335,532 \$ 338,567 \$ (3,035) 1.42% \$ (43)	\$	(4:
C. In 2020, the Company is expecting a increase in pension exp health retirement plans based on actuarial valuation. The pro- adjustment to reflect the increased costs is as follows:	o forma Health		
2020 Estimated Exponse	Retirement 353,640.00		
2020 Estimated Expense 2019 Actual Expense	331,492.85		
Increased Expense	\$ 22,147		
% Allocated to PAC	1.42% \$ 314		
Therefore:	<u> </u>	\$	31
D. In 2020, Pennichuck Water Works Revenues increased as a Order #26,383 in DW19-084 which results in a shifting of 'I expenses between the regulated Utilities resulting in a profession increase in the Company's share of PWW's Mgt Fee	Fier 1	¢	2 01
Therefore:		\$	3,01

TOTAL MANAGEMENT FEE EXPENSE PRO FORMA:\$ 1,385

Pittsfield Aqueduct Company Pro Forma Adjustment Income or Expense Property and Other Taxes Expense For the Twelve Months Ended December 31, 2019	 hedule 1 nment G
I PROPERTY TAXES	
A. To reflect a pro forma property tax adjustment for the net change	
in property taxes for the Town of Pittsfield and the State of New	
New Hampshire. Schedule 1A reflects the tax rate, taxes paid	
in the test year, the pro forma adjustments for increases in	
property taxes based on the tax year for each community, and	
the consolidated property tax adjustment.	
Therefore:	\$ (230)
TOTAL PROPERTY AND OTHER TAXES EXPENSE PRO FORMA:	\$ (230)

Pittsfield Aqueduct Company Pro Forma Adjustment Income or Expense Amortization Account For the Twelve Months Ended December 31, 2019

Schedule 1 Attachment H

No deferred assets were added to PAC during the test year or will be added during the 12 months after the test year. No deferred assets on the Company's books were fully amortized during the test year or will be fully amortized during the 12 months following the test year.

TOTAL AMORTIZATION EXPENSE PRO FORMA:

\$ -

Pittsfield Aqueduct Company Non Material Operating Expenses as defined in DW17-128 For the Twelve Months Ended December 31, 2019											Schedule 1 Attachment I				
		January	February	March	April	May	June	July	August	September	October	Novembe	December		2019 Totals
921002	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
921003	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
921004	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
923000	OUTSIDE SERVICES	-	-	-	1	-	-	8,971	-	-	-	-	-	8,972.36	8,972.36
926001	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
926500	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
926501	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
926502	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
926505	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
926600	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
926610	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
930100	#N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
930101	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
930200	PUBLIC RELATIONS	20	-	-	-	-	-	-	-	-	-	-	-	20.18	20.18
930300	MEALS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
930410	CHARITABLE CONTRIBUTIONS	-	-	-	-	-	-	-	-	-	-	-	-		-

Total of Non RSF backed O&M Expenses - \$ 8,992.54

Pittsfield Aqueduct Company Pro Forma Adjustment Income or Expense Income Taxes Account Proposed Rate Making - Cash Income Taxes For the Twelve Months Ended December 13, 2019

I INCOME TAX EXPENSE

A. To reflect the pro forma adjustment to book basis income taxes versus actual tax payments made to Federal and State Governments in 2019

Pittsfield Aqueduct Company Book Basis 2019 Federal and State Income Taxes									
	20)19 Book	20	19 Actual Tax					
	1	Basis (1)]	Payments (2)		Proforma			
PROV/FED INC TAX/CURRENT	\$	8,125	\$	-	\$	(8,125)			
PROVS FOR NH BUS PRFTS TAX CUR	\$	2,114	\$	-	\$	(2,114)			
PROV/FED INC TAX/DEFERRED	\$	3,468	\$	-	\$	(3,468)			
PROV NH INCOME TAX DEFERRED	\$	(178)	\$	-	\$	178			
NH BUSINESS ENTERPRISE TAX	\$	1,258	\$	1,258	\$	0			
INVESTMENT TAX CREDITS			\$	-	\$	-			
TOTALS	\$	14,787	\$	1,258	\$	(13,529)			

Notes:

 Taxes based on 2019 Profit and Loss Statement which reflects taxes calculated on PWW's book basis pretax income at the Federal and State statutory income tax basis

(2)	Cash payments made by t	o the	Federal and State	Governments based on 2019 Corporate Tax Returns
	based on PAC's share of	PCP	BET tax of	1.00% of the actual 2019 tax payment
	in the amount of	\$	125,825	

Schedule 1 Attach J Pittsfield Aqueduct Company, Inc Pro Forma Adjustment Income or Expense Depreciation Account For the Twelve Months Ended December 31, 2019

Schedule 1 Attachment K

I DI	EPI	RE	CIAT	IO]	Ν	
		-	2010	1	0	

A. In 2019, the Company added depreciable assets and only		
1/2 year depreciation expense was reflected in the test year.		
An additional $1/2$ year depreciation expense is added per the		
following per forma adjustment in order to reflect a full year		
depreciation expense in the test year. (Schedule 3, Attachment A, Exhibit 1)		
Therefore:	\$	274
	·	
B. In the test year, the Company disposed of depreciable assets.		
The total depreciation expense reflected in the test year for these		
assets was as follows: (Schedule 3, Attachment A, Exhibit 3)		
Therefore:	\$	(59)
 C. In Order 25,292 (DW11-026) dated November 23, 2011, the NHPUC approved a settlement agreement in which the settling parties agreed to a proforma adjustment for depreciation expense related to certain amount of equity related assets. The Company is reflecting the proforma adjustment as follows: Equity related assets as of 1/25/12 1,063,241 Composite Depreciation Rate 2.57% 		
Therefore:	\$	(27,325)
TOTAL DEPRECIATION EXPENSE PRO FORMA:	\$	(27,111)

	Pittsfield Aqueduct Forma Adjustment Income Taxe Twelve Months En	Income or Exp s Account	ense			edule 1 Ichment L
I INCOME TAXES						
A. To reflect the pro f	forma adjustment to re	ecord the income	e tax			
±	rma adjustments for t					
Therefore:	,	,				
(Sch1)	Water Sales				\$	(147,539)
(Sch1)	Other Operating I	Reveues				-
(0000)	Total Revenues					(147,539)
Less:	Expenses					
(Sch1, Attach B)	Production Exper	ise				1,537
(Sch1, Attach C)	Distribution Expe	ense				3,117
(Sch1, Attach D)	Customer Accour	nting				(422)
(Sch1, Attach E)	Administrative &	General				623
(Sch1, Attach F)	Management Fee					1,385
(Sch1, Attach G)	Total Prop & Oth	er Taxes				2,513
(Sch1, Attach K)	Depreciation					(27,111)
(Sch1, Attach F)	Amortization (1)					34,349
				Total	\$	(15,992)
	T (2.0.50/					
Pro Forma NHBP Therefore:	1ax (w 0.5%).					
Therefore.	\$	(163,531)	7.7%		¢	(12,592)
	Ψ.	(105,551)	/.//0	Sub Total	\$	(150,939)
				Sub Totai	Ŷ	(150,757)
Pro Forma FIT Ta	x 34%					
Therefore:						
	\$	(150,939)	21%		\$	(31,697)
				Sub Total	\$	(31,697)
TOTAL INCOM	E TAXES PRO FO	RMA:			\$	(44,289)
Note:						
(1) Per Order 25,292 in	n DW 11-026, the Sch	edule 1, Attachn	nent F, Adjus	stment I C,		
eliminates the amo	rtization of the Munic	ipal Acquisition	Regulatory A	sset (MARA).		
The MARA amorti	zation was not tax aff	ected/subject to	tax and is co	nsidered		
	ence item between bo					
the Amortization F	Pro Form Amount refl	ected does not in	clude the eli	mination of		
the MARA amortiz	vation as it has no tax	impact:				
Total Amortization	n Expense Pro Forma					
(Schedule 1, Attach	nment H)				\$	-

(Schedule 1, Attachment H)	\$ -
Less: MARA Amortization (Adjustment I C)	\$ (34,349)
Net Amortization Expense Pro Forma	\$ 34,349

Docket No. 20-153 Exhibit 1

Schedule 1A

Dec-19

Pittsfield Aqueduct Company Property Taxes For the Twelve Months Ended December 31, 2019

TOWN	TAX YEAR	TEST YEAR	TOTAL BILI FOR TAX YEAR 2019		TOTAL PENSE FOR 2019	PRO FORMA PROPERTY TAX	PROPERTY TAX ADJUSTMENTS (1)	PRO FORM PROPERTY ADJUSTME	TAX
PITTSFIELD	04/01/19 - 03/31/20	01/01/19- 12/31/19							
000017-000000			\$ 142,46	2 \$	143,147				
000042-000000			29	4	296				
000001-000000			49	7	499				
000013-000000			78	8	792				
000014-000000			1,03	4	1,039				
000006-000000			1,90		1,911				
000007-000000			1,27	9	1,285				
000008-000000			1,31	3	1,319				
000010-000000			1,41	4	1,421				
000010-000001			49	4	497				
000012-000001			57	4	577				
000013-000000			1,65	3	1,661				
000014-000000			1,46	9	1,476				
000015-000000			1,59	8	1,606				
000016-000000			1,09	8	1,104				
000003-000000			7,47	7	7,513				
000002-000000			1,07		1,078				
000003-000000			46		471				
			\$ 166,88	8 \$	167,690	\$ (802)	\$ 470	\$	(332)
STATE OF NH	04/01/19 -	01/01/19-							
011112 01 1411	03/31/20	12/31/19	\$ 19,25	4 \$	19,254	\$ -	101	\$	101
									(

72,601.00 72,508.00 69,954.00 150.00 150.00 144.00 253.00 253.00 244.00 402.00 401.00 387.00 526.00 526.00 508.00 969.00 968.00 934.00 651.00 651.00 628.00 668.00 669.00 645.00 721.00 720.00 694.00 252.00 251.00 243.00 292.00 282.00 292.00 842.00 841.00 812.00 749.00 748.00 721.00 814.00 813.00 785.00 560.00 559.00 539.00 3,806.00 3,671.00 3,811.00 547.00 546.00 527.00 239.00 239.00 230.00 85,048.00 84,940.00 81,948.00

Jun-19

Dec-18

STATE OF NH	04/01/19 - 03/31/20	01/01/19- 12/31/19	Ş	19,254 \$	19,254 \$	-	101 \$	101		19,841.00	19,254.00
			Ş	186,142 \$	186,944 \$	(802) \$	572 \$	(230)	-		

(1) Net value of change in property taxes for plant added or retired in 2019 per Sch 1A, Attach A and Attach B.

Pittsfield Aqueduct Company Taxable Assets Additions For Twleve Months Ended December 31, 2019

Schedule 1A Attachment A

Asset ID	Description	Placed In Service	Book Cost	Tax Rate	Local Property Tax
Town or Department: Pittsfield Asset Type: PAC ELECTRIC PUMPING EQUIPMENT: PUMPS Asset GL Acet #: 311210-6000-001 600-00000050 Subtotal: 311210-6000-001	Pittsfield: Boost Pump and Motor Rebuild	7/1/2019	\$1,320.90 \$1,320.90	30.66	40.50 40.50
Asset Type: PAC TRANS DIST MAINS - 6" & LARGER Asset GL Acet #: 331100-6000-001 600-00000059 600-00000060 Subtotal: 331100-6000-001	Catamount RD Water Main Phase 2 Broadway Street Main Replacement	10/1/2019 10/1/2019	(\$4.50) \$509.40 \$504.90	30.66 30.66	(0.14) 15.62 (0.14)
Asset Type: PAC SERVICES Asset GL Acct #: 333100-6000-001 600-00000063 Subtotal: 333100-6000-001	Fairview Road (#49): Pittsfield - 1in	11/1/2019	\$4,365.71 \$4,365.71	30.66	133.85 133.85
Asset Type: PAC RENEWED SERVICES Asset GL Acct #: 333200-6000-001 600-00000048 Subtotal: 333200-6000-001	Catamount Road (#47): Pittsfield 1in.	3/1/2019	\$5,076.26 \$5,076.26	30.66	155.64 155.64
Asset Type: PAC METERS Asset GL Acet #: 334000-6000-001 600-00000047 600-00000052 600-00000056 600-00000057 600-00000061 600-00000064 Subtotal: 334000-6000-001	5/8in. Pac Install New Meter: Pittsf 5/8in Install New Meter 5/8in. Pac Install New Meter: Pittsf 5/8in Pac Install New Meter: Pittsf 650 - 5/8in. Pac Install New Meter: Pitt 1in. Pac Install New Meter: Pittsfield	1/1/2019 7/1/2019 9/1/2019 10/1/2019 11/1/2019 12/1/2019	\$74.59 \$74.59 \$74.59 \$74.59 \$298.37 \$200.30 \$797.03	30.66 30.66 30.66 30.66 30.66 30.66	2.29 2.29 2.29 9.15 6.14 24.44
Asset Type: PAC RADIOS FOR METERING EQUIPMENT Asset GL Acet #: 334100-6000-001 600-00000049 600-00000051 600-00000053 600-00000058 600-00000065 Subtotal: 334100-6000-001	Pac Neptune Radio Replacements: Pi 654 - Pac Neptune Radio Replacements PAC Neptune Radio Replacements 654 - Pac Neptune Radio Replacements: Pi 654 - Pac Neptune Radio Replacements: Pi Pac Neptune Radio Replacements	5/1/2019 7/1/2019 8/1/2019 10/1/2019 11/1/2019 12/1/2019	\$93.82 \$96.88 \$96.88 \$20.88 \$200.80 \$100.40 \$685.66	30.66 30.66 30.66 30.66 30.66 30.66	2.88 2.97 2.97 6.16 3.08 21.02
Asset Type: PAC COMMUNICATION EQUIPMENT Asset GL Acct #: 346000-6000-001 600-00000054 600-00000055 Subtotal: 346000-6000-001 Subtotal: Pittsfield	Install Cellular Alarm Install Cellular Alarm	8/1/2019 9/1/2019 	\$5,324.17 \$135.07 5,459.24 17,704.80	30.66 30.66	163.24 4.14 167.38 542.83

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Docket No. 20-153 Exhibit 1

Pittsfield Acqueduct Company Taxable Assets for Asset Dispositions For the Twelve Months Ended December 31, 2019

Description	Placed In Service	Disposal Date	Cost	Tax Rate	Local Property Tax
Catamount Road (#47): Pittsfield - 1 CT	7/1/1978	6/30/2019	\$115.56 115.56	30.66	3.54 3.54
5/8 New Meter Exchanges: Pittsfield 5/8 Meters: Pittsfield - (6) 5/8 Meters: Pittsfield - (2) 5/8 Meters: Pittsfield - (2) 5/8 Meters: Pittsfield - (4)	9/1/2014 9/1/2005 9/1/2005 9/1/2005 9/1/2005	12/31/2019 6/30/2019 12/31/2019 3/31/2019 12/31/2019	\$125.59 \$585.60 \$195.26 \$195.26 \$390.52 1,492.23	30.66 30.66 30.66 30.66 30.66	3.85 17.95 5.99 5.99 11.97 45.75
Neptune Radio Replacements: Pittsfield Neptune Radio Installs: Pittsfield - (2) Neptune Radio Installs: Pittsfield - (1) Neptune Radio Installs: Pittsfield - (1) Neptune Radio Installs: Pittsfield - (3)	4/1/2013 9/1/2005 9/1/2005 9/1/2005 9/1/2005	10/31/2019 9/30/2019 3/31/2019 6/30/2019 12/31/2019	\$81.40 \$190.01 \$95.00 \$95.01 \$293.16 754.58	30.66 30.66 30.66 30.66 30.66	2.50 5.83 2.91 2.91 8.99 23.14
	Pl	ant Retired in 2019 -	2,362.37		72.43

Schedule 1A Attachment B

Docket No. 20-153 Exhibit 1

Pittsfield Acqueduct Company Non Union Payroll Summary PRO FORMA Adjustments For the Twelve Months Ended December 31, 2019

Annualized **Total Proformed Twelve Months** 2020 Non **Twelve Months** Ending 12/31/19 Union Salaries 12/31/19 846,007 \$ Production Non Union Salaries \$ 716,706 \$ (129, 301)Distribution Non Union Salaries 470,415 433,552 \$ (36, 863)**Engineering Salaries** 547,501 537,918 \$ (9,583)Admin & General Salaries 3,144,575 3,231,674 \$ 87,099 5,008,498 4,919,850 (88, 648)Total Non Union Salaries

Notes:

(1) The Company is reflecting the salary changes for 12 months to reflect the Company's full costs on a going forward basis based on the changes to PWW salaries that occurred in April of 2020

Schedule Non Union 1B

Pittsfield Aqueduct Company PAYROLL SUMMARY Pro Forma Adjustments For the Twelve Months Ended December 31, 2019

Schedule Union 1B

		Twelve Months Ending 12/31/19	Wage Increase Effective 1/1/20	Profe	'otal orma for ayroll
	Production Labor Expense Distribution Labor Expense			\$ \$	1,010 1,875
Total		\$ 83,624	4	 \$	2,885

Notes:

(1) The Company is reflecting salary and wage changes for 12 months ot reflect the Company's full costs on a going forward basis.

					2019 Workorder O								
Source: 2019 Mgt Fee	PWW Capital	Production 070 WTP	Distributio 080 OPS	n Fleet	PWW Jobbing	PWS Jobb	<u>ing</u> PWS Jobbing	PAC Capital	Jobbing PAC	PEU Capital	Jobbing PEU	Total	
Labor	58,274.36	Maintenance 894,072.37	Maintenance 1,745,057.06	77,818.68	48,707.59	Maintenance 425,823.36	56,554.82	3,732.23	Maintenance 83,624.18	27,095.30	Maintenance 762,210.60	4,182,970.55	
Contractor Clearing	58,274.56 114,695.11	,	, ,	166,958.84	48,707.59	,	473,888.18	2,696.82	,	27,095.30	,	4,182,970.55 870,242.50	
8	26,534.47	- 499.80	- 74,290.19	,	22,408.08	- 76.73	4/5,888.18 921.42	456.88	- 723.69	100,281.44	- 17,887.35	154,159.71	
Inventory: Pipes & Fittings	,		,	-	,					,	,	,	
Inventory: Meters	222,176.17	-	2,846.41 40.56	-	-	-	2,352.80	1,540.41	320.12	89,738.39	2,923.76	321,898.06 121.70	
Inventory: Misc T&D	55.17	-		-	-	-	-	-	-	-	25.97		
Inventory: Chemicals Inventory: Fleet	-	913,828.98	-	3,220.49	-	-	10,233.07	-	-	-	66,041.51	990,103.56	
	-	-	-	,	-	-	-	-	-	-	-	3,220.49	
Inventory: Backup Gen Fuel	-	-	-	-	-	-	-	-	-	-	-	-	
Misc T&D Supplies	-	-	-	-	-	-	-	-	-	-	-	-	
Truck	24,529.25	89,684.75	332,620.75	2,024.75	20,294.75	134,802.50	14,904.70	1,345.75	8,863.75	10,028.50	228,599.00	867,698.45	
Backhoe	7,582.75	677.50	37,128.00	-	6,201.75	194.75	612.50	433.75	1,058.25	3,250.50	12,870.25	70,010.00	
Compressor	-	-	4,189.50	-	-	-	-	-	-	-	1,083.00	5,272.50	
Inspection Fees	-	-	-	-	123,612.00	-	-	-	-	-	-	123,612.00	
Overhead	9,112.72			-	39,004.45			252.98	-	5,054.04		53,424.19	
Labor Overhead	37,229.44	565,411.37	1,103,574.08	49,212.53	47,320.49	264,601.01	36,260.73	2,439.34	44,507.85	17,366.31	488,205.04	2,656,128.19	
Misc General Equipment	-		-				-	-			-		
Total Costs	500,189.44	2,464,174.77	3,299,746.55	299,235.29	319,271.22	825,498.35	595,728.22	12,898.16	139,097.84	263,175.58	1,579,846.48	10,298,861.90	
Total Costs w/o OH & CWIP	376,381.61	2,464,174.77	3,299,746.55	132,276.45	268,544.66	825,498.35	121,840.04	9,948.36	139,097.84	157,840.10	1,579,846.48	9,375,195.21	
% of Total	4.86%	23.93%	32.04%	2.91%	3.10%	8.02%	5.78%	0.13%	1.35%	2.56%	15.34%	100.00%	
% of Total w/o OH & CWIP Ovhd Allocable to Work Orders	4.01%	26.28%	35.20%	1.41%	2.86%	8.81%	1.30%	0.11%	1.48%	1.68%	16.85%	100.00%	
2,627,831	127,627	628,752	841,955	76,352	81,464	210,632	152,004	3,291	35,492	67,151	403,109	2,627,829	
Totals by Company: PWW	127,627	628,752	841,955	76,352	81,464							1,756,150	66.8%
PEU PAC PWS						210 (22	150.004	3,291	35,492	67,151	403,109	470,260 38,783	17.9% 1.5%
Total Overhead	127,627	628,752	841,955	76,352	81,464	210,632 210,632	152,004 152,004	2 201	35,492	67,151	403,109	362,636	13.8%
i otai Overnead	127,627	628,752	841,955	/6,352	81,464	210,632	152,004	3,291	35,492	67,151	403,109	2,627,829	100.0%
% Labor	1.39%	21.37%	41.72%	1.86%	1.16%	10.18%	1.35%	0.09%	2.00%	0.65%	18.22%	100.00%	

**070, 080 & Fleet Labor Overhead has been calculated per Charlie.

	-	Cap Labor	Labor Expense	
Total Union Labor per Synergen	4,282,934			
Total Labor per Schedule	4,182,971		4,182,971	
Spec Projects		99,964		
Union Labor Capitalized				
PWW Capital	58,274			
PAC Capital	3,732			
PEU Capital	27,095	89,102	(89,102)	
Totals				
Totals	-	189,066	4,093,869	4,282,934

1.00

Pittsfield Aqueduct Company 2019 Test Year Revenues and Pumpage PRO FORMA

Schedule 1C

				2019 TY		
				Revenue	Pro	forma Rate
			Proformas		Ca	se 2019 TY
	2	019 Test Year	based on Five		Revenues based	
Revenue Type	Billed Revenues			Yr Ave	on	Five Yr Ave
Total PAC Volumetric Charges -	Ş	355,443	\$	4,270	\$	359,713
Total PAC Meter Charges (Fixed Fee) -	\$	211,560			\$	211,560
Total PAC Municipal Fire Protection Charges (Fixed Fee) -	\$	175,804			\$	175,804
Total PAC Private Fire Protection Charges (Fixed Fee) -	\$	29,067			\$	29,067
Total Billed 2019 PEU Revenues -	\$	771,874	\$	4,270	Ş	776,144

PAC Volumetric Sales and Pumpage in CCF's													
		2015		2016		2017		2018		2019	2019 Volumetric Sales & Pumpage Proforma's (CCF)2	Proformed Five Year Average 2019 Volumetric Sales & Pumpage2	Actual Five Year Average
Total PAC volumetric sales (CCF)	\$	52,620	\$	58,012	\$	57,018	\$	57,011	\$	55,342	659	56,001	56,001
PAC WTP production (CCF) -	\$	68,174	\$	73,983	\$	62,615	\$	61,037	\$	58,667	2,106	60,773	60,773
% Unaccounted for PAC -		22.8%		21.6%		8.9%		6.6%		5.7%			
Increase (reduction) in CCF's production for the year from 5 Year Average(2) -		7,401		13,210		1,842		264		(2,106)			
Increase (reduction) in CCF's production from for the year Extreme Year -		(5,809)		-		(11,368)		(12,946)		(15,316)			
Percent Increase (reduction) in production for the year from 5 Year Average(2) -		12.2%		21.7%		3.0%		0.4%		-3.5%			
Percent Increase (reduction) in CCF's production for the year from Extreme Year		-7.9%		0.0%		-15.4%		-17.5%		-20.7%			

Notes:

1. Revenues proformed to 5 year average consumption for volumetric charges only.

2019 PAC Volumetric Rate - \$ 6.48 per CCF

2. Five year production average is based on three years production, 2017, 2018 and 2020 due to the elimination of unaccounted for water that resulted in higher production during 2014 and 2015

Schedule 2

Pittsfield Aqueduct Company BALANCE SHEET ASSETS AND DEFERRED CHARGES For the Twelve Months Ended December 31, 2019

	Account Number	12/31/2019	13 MONTH TEST YR AVERAGE	12/31/2018	12/31/2017
PLANT ASSETS					
Plant in Service	301 to 348	4,668,042	4,661,211	4,654,389	4,654,736
Work in process	105	6,177	7,005	6,708	828
Utility Plant	_	4,674,219	4,668,216	4,661,096	4,655,563
Accumulated depreciation	108	1,568,525	1,521,605	1,472,217	1,389,966
Net Plant	-	3,105,694	3,146,610	3,188,879	3,265,597
Net Acquisition Adjustment	114 & 115	-	-	-	-
Total Net Utility Plant	-	3,105,694	3,146,610	3,188,879	3,265,597
CURRENT ASSETS					
Cash & Special Deposits	131 & 133	-	-	-	-
Accounts receivable-billed, net	141 & 143	25,808	36,028	41,583	47,316
Accounts receivable-unbilled, net	173	75,932	74,377	79,074	75,385
Accounts receivable-other	142	-	-	-	-
Materials & Supplies	151	-	-	-	-
Prepaid expenses	162	150	362	233	2,819
Prepaid property taxes	163 & 236	40,974	24,781	42,524	34,407
Prepaid taxes	162.3	-	-	-	-
-	-	142,864	135,548	163,414	159,927
OTHER ASSETS					
Debt issuance expenses	181	21,205	21,579	21,953	20,208
Other & Def Charges	182,184,186	1,191,387	1,214,964	1,237,794	1,274,424
	-	1,212,592	1,236,543	1,259,747	1,294,631
TOTAL ASSETS	=	\$ 4,461,150	\$ 4,518,701	\$ 4,612,040	\$ 4,720,155

Pittsfield Aqueduct Company BALANCE SHEET EQUITY AND LIABILITIES For the Twelve Months Ended December 31, 2019

Schedule 2A

	Account Number	12/31/2019	13 MONTH TEST YR AVERAGE	12/31/2018	12/31/2017
STOCKHOLDERS' EQUITY					
Common stock	201	100	100	100	100
Paid in capital	211	1,899,596	1,905,092	1,935,318	2,064,824
Retained earnings	215	(131,389)	(135,298)	(137,454)	(23,553)
		1,768,307	1,769,893	1,797,964	2,041,371
LONG TERM DEBT					
Bonds, notes and mortgages	221	164,458	166,403	168,331	171,163
Intercompany advances	223	1,162,402	1,189,012	1,257,695	1,200,423
Other Long Term Debt	224	-	-	-	-
CURRENT LIABILITIES					
Accounts payable	231	3,262	15,990	1,956	7,622
Accrued property taxes	236	-	-	2,258	-
Accrued interest payable	237	-	-	-	-
Other accrued expenses	241	319	1,710	317	318
Income taxes payable	236	-	-	-	-
Customer deposits & other	235		-	-	-
		3,581	17,700	4,530	7,940
OTHER LIABILITIES AND DEFERRED CREDITS					
Deferred Income Tax	282	711,559	709,835	709,691	602,444
Customer advances	252	-	-	-	-
CIAC, net	271 & 272	650,844	662,336	673,829	696,815
Other long term liabilities			-	-	-
		1,362,403	1,372,171	1,383,520	1,299,259
TOTAL EQUITY AND LIABILITIES		\$ 4,461,150	\$ 4,515,180	\$ 4,612,040	\$ 4,720,155

Pittsfield Aqueduct Company ACCUMULATED DEPRECIATION For The Twelve Months Ended December 31, 2018 - 2019

A
A

ACCOUNT CLASSIFICATION	Asset Account Number	12/31/19		12/31/18
Structures	301	\$ 584,374	Ş	555,151
Land	303	-	\$	-
Pumping and Distribution Equipment	304 to 310	43,003		37,664
Transmission and Distribution Mains	311 to 320	1,016,040		968,874
Services	331	85,800		81,531
Meters	333	80,797		77,319
Hydrants	334	46,689		43,810
Intangible Plant	335	64,218		60,440
Other Equipment	339 to 348	 84,250		81,258
TOTAL		\$ 2,005,171	\$	1,906,047
Accumulated Depreciation - Loss		\$ (192,442)	\$	(191,955)
Accumulated Depreciation - Cost of Removal		\$ (242,562)	\$	(241,875)
GRAND TOTAL		\$ 1,570,167	\$	1,472,217

Accum Depr - Plant in Service				108001	ACCU
Per BNA (includes Lshld Impvmnts)	\$ 2,005,171	ş	1,906,047	108002	ACCU
Per Consolidating FS	1,998,383		1,906,047		
Plus Lshld Imprvmnts	-		-	108000	ACCU
Plus Intangible Plant	-		-		
Variance due to fixed asset software conversion	-		-		
Diff in Open Bal Acq Adj	 -		-		
Difference	\$ 6,788	\$	-		

		2018	2019
08001	ACCUM DEPREC: COST OF REM -PAC	241,875.23	242,561.67
08002	ACCUM DEPRECIATION: LOSS -PAC	191,954.99	192,442.06
	Variance due to fixed asset software conversion	-	-
08000	ACCUMULATED DEPRECIATION: PAC	(1,906,047.48)	(1,998,382.89)
		(1,472,217)	(1,563,379)
		1,472,217	1,570,167

Pittsfield Aqueduct Company Depreciation Expense [Depreciation] GAAP

For the Period January 1, 2019 to December 31, 2019 All Assets

Schedule 2 Attach A Support Asset GL Acct # Book Cost Depr & AFYD **Beginning Accum** Current Depr & Net Sec 179/Sec Net Additions Ending This Period Depr AFYD 179A Deletions ccum Depr Intangible Plant 301000-6000-001 75,550.65 3,777.54 60,440.49 3,777.54 0.00 0.00 64,218.03 75,550.65 3,777.54 60,440.49 3,777.54 64,218.03 --Land 303100-6000-001 44,180.00 0.00 0.00 0.00 0.00 0.00 0.00 303300-6000-001 16,153.19 0.00 0.00 0.00 0.00 0.00 0.00 60.333.19 _ --_ _ Structures 71.250.05 1.875.00 27.337.43 1.875.00 29.212.43 304100-6000-001 0.00 0.00 304700-6000-001 1,080.00 33.96 220.63 33.96 0.00 0.00 254.59 304800-6000-001 935,239.10 19,118.16 443,586.18 19,118.16 0.00 0.00 462,704.34 305000-6000-001 137.331.50 2.459.82 20.501.62 2.459.82 0.00 0.00 22.961.44 306000-6000-001 38,270.60 846.72 9,404.31 846.72 0.00 0.00 10,251.03 309000-6000-001 309,352.70 4,890.00 54,100.58 4,890.00 0.00 58,990.58 0.00 1,492,523,95 29,223.66 555,150,75 29,223.66 584,374,41 -Pump/Dist Equip 55,407.06 2,662.44 16,802.11 2,662.44 0.00 0.00 19,464.55 310000-6000-001 311200-6000-001 1,651.09 70.56 786.67 70.56 0.00 0.00 857.23 311210-6000-001 15,425.94 619.14 2,483.25 619.14 0.0029.03 3,131.42 320200-6000-001 565.56 565.56 17.042.89 3.111.50 0.00 0.00 3.677.06 320310-6000-001 41,963.48 1,391.58 14,480.87 1,391.58 0.00 0.00 15,872.45 131,490.46 5,309.28 37,664.40 5,309.28 29.03 43,002.71 -Trans/Dist Mains 331000-6000-001 5,000.00 122.64 1,833.52 122.64 0.00 0.00 1,956.16 331001-6000-001 3,788.88 77.16 1,195.38 77.16 0.00 1,272.54 0.00 331002-6000-001 124,788,30 3.215.33 14.369.05 3.215.33 0.00 0.00 17.584.38 331003-6000-001 2,833.21 68.58 994.89 68.58 0.00 0.00 1,063.47 603,751.20 101,983.28 27.75 112,325.44 331100-6000-001 10.314.41 10.314.41 0.00 331150-6000-001 316,734.00 4,765.08 96,732.18 4,765.08 0.00 0.00 101,497.26 331200-6000-001 216.00 5.96 50.67 5.96 0.00 0.00 56.63 331250-6000-001 9.998.74 301.44 2.578.05 301.44 0.00 0.00 2.879.49 331251-6000-001 91,666.80 2,511.59 10,887.22 2,511.59 0.000.00 13,398.81 331252-6000-001 284.49 6.60 93.04 6.60 0.00 0.00 99.64 331400-6000-001 805.338.48 18,465,94 570,124,84 18,465,94 0.00 0.00 588,590,78 331401-6000-001 390,239.50 7,282.98 168,032.26 7,282.98 0.00 0.00 175,315.24 2,354,639.60 47,137.71 968,874.38 47,137.71 27.75 1,016,039.84 -Services 333004-6000-001 92.11 637.47 0.00 0.00 729.58 3,700.02 92.11 333100-6000-001 117,207.78 2,670.94 62,581.41 2,670.94 -62.32 0.00 65.190.03 333200-6000-001 67,128.44 1,506.21 18.312.29 1.506.21 0.00 61.91 19.880.41 188,036.24 4,269.26 81,531.17 4,269.26 (0.41) 85,800.02 -Meters 334000-6000-001 84,230.55 3,804.06 42,441.82 3,804.06 0.00 -863.29 45,382.59 334100-6000-001 61,640.83 939.58 34,876.70 939.58 0.00 -402.03 35,414.25 145,871.38 4,743.64 77.318.52 4,743.64 (1,265.32) 80,796.84 -Hydrants 335000-6000-001 79,503.27 2,200.16 33,227.01 2,200.16 0.00 35,427.17 0.00 335005-6000-001 184.00 4.20 51.12 4.20 0.00 0.00 55.32 335100-6000-001 25,375.00 675.24 10,531.46 675.24 0.00 0.00 11,206.70 105,062.27 2,879.60 43,809.59 2,879.60 46,689.19 _ Other Equipment 13.68 1,255.01 0.00 339000-6000-001 1,495.00 13.68 0.00 1.268.69 343000-6000-001 9.687.95 518.10 8.392.70 518.10 0.00 0.00 8,910,80 344000-6000-001 31,159.42 1,618.39 16,406.66 1,618.39 0.00 -1,032.55 16,992.50 346000-6000-001 30,662.09 1,338.29 14,640.44 1,338.29 0.00 143.66 16,122.39 24,555,64 24.555.64 347110-6000-001 0.00 0.00 0.00 0.00 24,555.64 348000-6000-001 16,974.54 391.98 16,007.73 391.98 0.00 0.00 16,399.71 114,534.64 3,880.44 81,258.18 3,880.44 (888.89) 84,249.73 -4,668,042.38 101,221.13 1,906,047.48 101,221.13 (2,097.84) 2,005,170.77

Pittsfield Aqueduct Company **OTHER DEFERRED CHARGES - OTHER ASSETS**

For the Twelve Months Ended December 31, 2019

Schedule 2

Attachment C

ACCOUNT #	DESCRIPTION	12/31/19	12/31/18	12/31/17	EXPLANATION
186100	ACQUISITION PREMIUM - MARA	1,186,226	1,220,575	1,254,117	
186240	SARBANES-OXLEY	-	-	-	Note 1
186245	TILTON HILL ROAD MAIN BREAK	-	-	-	
186255	MAIN BREAK - OCTOBER 2003	-	-	-	
186260	SOUTH MAIN LEAK RESEARCH	-	-	-	
186265	ABATEMENT	-	8,971	8,971	
186300	GRANT APPLICATION - 2008	-	-	-	
186350	LOUDON RD MAIN BREAK	-	-	-	
186360	FAIRVIEW ROAD MAIN BREAK	-	-	-	
186380	RATE CASE EXPENSE: 2007	-	-	-	
186385	2010 DEFERRED RATE CASE EXP	-	-	-	
186390	RATE CASE EXPENSE: 2012	-	-	-	
186450	CONCORD HILL ROAD SERVICE REPR	-	-	-	
186650	EMINENT DOMAIN	3,669	3,669	3,669	
186675	WEB SITE UPGRADE 2006	-	-	-	
186680	WEB-SITE UPGRADE 2011	-	-	-	
186285	BERRY POND BATHYMETRIC SURVEY	5,161	8,248	11,335	
186698	BERRY POND BATHYMETRIC SURVEY	-	-	-	
186998	EMINENT DOMAIN ALLOWANCE	(3,669)	(3,669)	(3,669)	
	TOTAL 186	1,191,387	1,237,794	1,274,424	

Notes:

(1) Order 25,292 (DW 11-026) approved the establishment and amortization of the regulatory asset known as the MARA for the Company.

MARA is treated as an Equity-Related Item that is removed for the traditional ratemaking process and is subject to recovery only through the CBFRR.

Pittsfield Aqueduct Company Net Book Value [Amortization] For the Period January 1, 2019 to December 31, 2019 Deferred Assets Additions GAAP

	ASSET BALANCES AMORTIZATION										Full Year	Pro Forma	Adjusted			
Asset ID	Beginning	Additions	Deletions	End	ling	Beg. Balance	Amort. Exp	Oth. Additions	Deletions	End. Balance	Net Book Value	Years	Months	Amort	Adjustment (1)	Book Value
Asset GL Acct #: 184100-7000-001 Life Yr Mo: 0 yr 0 mo																
	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00			-			
Subtotal: 184100-7000-001	0.00) 0.0	00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		-			
Asset GL Acct #: 186100-7000-001 Life Yr Mo: 0 yr 0 mo																
	0.00	0.0	00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Subtotal: 186100-7000-001	0.00) 0.0	00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Asset GL Acct #: 186265-7000-001 Life Yr Mo: 0 yr 0 mo																
70000-008795	0.00) 0.0	00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Subtotal: 186265-7000-001 Asset GL Acct #: 186400-7000-001 Life Yr Mo: 0 vr 0 mo	0.00) 0.0	00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
	0.00) 0.0	00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Subtotal: 186400-7000-001	0.00) 0.0	00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Asset GL Acct #: 186410-7000-001Life Yr Mo: 0 yr 0 mo 51.38	0.00) 0.0	00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Subtotal: 186410-7000-001 (7) Asset GL Acct #: 186500-7000-001 Life Yr Mo: 25 vr 0 mo	0.00) 0.0	00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Asset GE ACCL#. 100300-7000-001 Lile 11 Wo. 23 VI 0 110	0.00) 0.0	00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Subtotal: 186500-7000-001 (1) Asset GL Acct #: 186730-7000-001 Life Yr Mo: 0 vr 0 mo	0.00) 0.0	00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		-			
	0.00	0.0	00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Subtotal: 186730-7000-001 (1)	0.00) 0.0	00	0.00	0.00	0.00	0.00		0.00	0.00						
Grand Total	0.00) 0.0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00						

Schedule 2 Attach B Pg 1

*Life is original life of deferred asset, subsequent entries should expire the same month as original.

Pittsfield Aqueduct Company Net Book Value [Amortization] For the Period January 1, 2019 to December 31, 2019 Deferred Assets GAAP

ASSET BALANCES

Schedule 2 Attach B Support

AMORTIZATION

Asset ID	Description	Beginning	Additions	Deletions	Ending	Beg. Balance	Amort. Exp	Oth. Additions	Deletions	End. Balance	Net Book Value
Asset GL Acct #: 186285-6000-001	Life Yr Mo: 10 yr 0 mo				Ū.	·	·				
60000-001077	Berry Pond Water Quality Evaluation & Ba	1,169.24	0.00	0.00	1,169.24	857.29	116.86	0.00	0.00	974.15	195.09
60000-001078	Berry Pond Water Quality Evaluation & Ba	4,000.00	0.00	0.00	4,000.00	2,932.59	399.78	0.00	0.00	3,332.37	667.63
60000-001079	Berry Pond Water Quality Evaluation & Ba	12,000.00	0.00	0.00	12,000.00	8,797.84	1,199.28	0.00	0.00	9,997.12	2,002.88
60000-001080	Berry Pond Water Quality Evaluation & Ba	8,000.00	0.00	0.00	8,000.00	5,865.34	799.50	0.00	0.00	6,664.84	1,335.16
60000-001081	Berry Pond Water Quality Evaluation & Ba	123.89	0.00	0.00	123.89	90.77	12.38	0.00	0.00	103.15	20.74
60000-001082	Berry Pond Water Quality Evaluation & Ba	542.50	0.00	0.00	542.50	397.80	54.22	0.00	0.00	452.02	90.48
60000-001083	Berry Pond Water Quality Evaluation & Ba	146.16	0.00	0.00	146.16	107.23	14.58	0.00	0.00	121.81	24.35
60000-001100	Berry Pond Water Quality Evaluation & Ba	343.43	0.00	0.00	343.43	243.18	34.32	0.00	0.00	277.50	65.93
60000-001119	Berry Pond Water Quality Evaluation & Ba	1,924.14	0.00	0.00	1,924.14	1,389.39	201.00	0.00	0.00	1,590.39	333.75
60000-001143	Berry Pond Water Quality Evaluation & Ba	1,846.52	0.00	0.00	1,846.52	1,305.13	203.52	0.00	0.00	1,508.65	337.87
60000-001147	Berry Pond Water Quality Evaluation & Ba	470.44	0.00	0.00	470.44	330.91	52.26	0.00	0.00	383.17	87.27
Subtotal: 186285-6000-001		30,566.32	0.00	0.00	30,566.32	22,317.47	3,087.70	0.00	0.00	25,405.17	5,161.15
Grand Total		30,566.32	0.00	0.00	30.566.32	22.317.47	3.087.70	0.00	0.00	25,405.17	5,161.15

Docket No. 20-153 Exhibit 1

Schedule 2C

Pittsfield Aqueduct Company CONTRIBUTIONS IN AID OF CONSTRUCTION For the Twelve Months Ended December 31, 2019

		2015	2016	2017	2018	2019
271200	CONTRIBUTIONS IN AID OF CONST	750,287	750,287	750,287	750,287	750,287
271201	CIAC-WATER FILTRATION GRANT	398,350	398,350	398,350	398,350	398,350
	TOTAL CIAC	1,148,636	1,148,636	1,148,636	1,148,636	1,148,636
272101	RESERVE FOR AMORT OF CIAC:PAC	(405,848)	(428,749)	(451,821)	(474,807)	(495,877)
	TOTAL RESERVE FOR AMORT OF CIAC	(405,848)	(428,749)	(451,821)	(474,807)	(495,877)
	GRAND TOTAL OF CIAC	742,788	719,887	696,815	673,829	652,759

Schedule 3

PITTSFIELD AQUEDUCT COMPANY COMPUTATION OF RATE BASE For the Twelve Months Ended December 31, 2019

							50	chedule 3
Description	1	'est Year Average Sch 3B)	Year End Rate Base	А	Pro Forma djustments manent Rates			o Forma est Year
Plant in Service	\$	4,661,211	\$ 4,668,042	\$	(1,061,202)	(1)	\$	3,600,009
Accum Deprec		1,956,283	2,005,171		(59)	(2)		1,956,224
Accum Deprec: Loss		192,334	194,062		-			192,334
Accum Deprec: COR		242,345	242,584		-			242,345
CIAC		1,148,636	1,148,636		-			1,148,636
Amort of CIAC		486,300	497,793		-			486,300
		2,477,271	2,448,674		(1,061,143)	•		1,416,128
ADD:								
Working Cap		49,026	31,334		769	(3)		49,795
Materials & Supplies		-	5,901		-			-
Prepayments		1,829	31,188		-			1,829
Other & Deferred Charges		1,214,964	1,458,586		(1,203,429)	(4)		11,535
		1,265,819	1,527,009		(1,202,660)	-		63,159
DEDUCT:								
Customer Advances		-	-		-			-
Customer Deposits		-	-		-			-
Deferred Income Tax		508,618	525,781		-			508,618
		508,618	 525,781		-			508,618
TOTAL Rate Base	\$	3,234,472	\$ 3,449,901	\$	(2,263,803)		\$	970,669

Notes:

(1) adjust test year average to year end for non-revenue producing assets and elimination of equity related assets per Schedule 3, Attachment A

(2) adjust for plant additions per Schedule 3, Attachment C

(3) reflect impact of the expense proforma adjustments on working capital per Schedule 3, Attachment D

(4) adjust for the elimination of MARA per Schedule 3, Attachment B

Pittsfield Aqueduct Company, Inc
Pro Forma Adjustment to Rate Base
Plant in Service
For the Twelve Months Ended December 31, 2019

Schedule 3 Attachment A

I PLANT IN SERVICE

A. Schedule 3, Attachment A, Exhibit 2, de	tails addi	tions to plant in service	
that were completed within the test year	. All iter	ms are	
capital improvements that are necessitat	ed by ma	ndates, SDWA,	
regulation, replacement of aging infrast	ucture of	r upgrades to the	
system. All of these plant additions are	consider	red non-revenue	
producing in nature. The pro forma adj	ustment i	reflects the difference	
between the total cost of the assets adde	ed and th	e portion reflected	
in the thirteen month average.			
Therefore:			\$ 3,698
B Schedule 3, Attachment A, Exhibit 4, de	tails retir	ements to plant in service	
that were completed within the test year	All of	these plant retirements	
are considered non-revenue producing	in nature	e. These non revenue	
producing capital retirements were calc	ulated as	part of the thirteen	
month average of plant in service for th	e test ye	ar. The pro forma	
adjustment reflects the difference betw	een the t	otal cost of the	
assets retired and the portion reflected	in the th	irteen month average.	
Therefore:		C C	\$ (1,659)
C. Per Order 25,292 in DW 11-026, elimina	ate the ec	nuity related assets	
as of $1/25/12$. The amounts can be four		. ,	
of the Pennichuck Corporation's 90 day		()10	
as follows:	0	, ,	
Paid in Capital	\$	237,129	
Retained Earnings	\$	826,112	
Total Equity 1/25/12	\$	1,063,241	
Therefore:			(1,063,241)
			. ,

TOTAL PRO FORMA PLANT IN SERVICE

\$ (1,061,202)

Pittsfield Aqueduct Company, Inc Pro Forma Adjustment to Rate Base		Schedule 3
Deferred Debits	At	ttachment B
For the Twelve Months Ended December 31, 2019		
II DEFERRED DEBITS		
A. Per Order 25,292 in DW 11-026, the following pro forma adjustment eliminates the Municipal Acquisition Regulatory Asset (MARA) from rate base calculated on a 13 month average.		
(See Schedule 3B - by Account Name) Therefore:	\$	(1,203,429)
TOTAL PRO FORMA UNAMORTIZED DEFERRED ASSETS:	\$	(1,203,429)

Pittsfield Aqueduct Company, Inc		
Pro Forma Adjustment to Rate Base	Sche	dule 3
Accumulated Depreciation	Attachm	nent C
For the Twelve Months Ended December 31, 2019		
I ACCUMULATED DEPRECIATION		
A To reflect the additional $1/2$ year depreciation expense		
pro forma for capital assets added in the test year		
(See Schedule 3, Attachment A, Exhibit 1)	\$	-
A To reflect the elimination of $1/2$ year depreciation expense		
pro forma for capital assets retired in the test year		
(See Schedule 3, Attachment A, Exhibit 3)		(59)
TOTAL ACCUMULATED DEPRECIATION PRO FORMA:	\$	(59)

Pittsfield Aqueduct Company, Inc Pro Forma Adjustment to Rate Base Working Capital For the Twelve Months Ended December 31, 2019

Schedule 3 Attachment D

I WORKING CAPITAL

A. A pro forma adjustment for working capital is calculated at 45 days divided by 365 days or 12.33%. Total pro forma operation and maintenance expenses (Schedule 1) are for the twelve months of the test year.
Therefore:

Working
Total O & M Expenses
Capital Rate
\$ 6,241 12.33%

\$ 769

TOTAL PRO FORMA WORKING CAPITAL:\$769

PITTSFIELD AQUEDUCT COMPANY COMPUTATION OF WORKING CAPITAL (0&M) ALLOWANCE For The Thirteen Months Ended December 31, 2019

Schedule 3A

	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Average
Production Expenses	7,478	13,606	11,570	9,929	8,321	13,542	7,967	10,385	9,010	8,525	11,178	14,260	13,022	10,676
Transmission & Distribution Expenses	701	3,114	4,479	2,963	1,475	3,866	12,563	7,408	4,094	1,255	6,246	11,452	2,265	4,760
Engineering Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Customer Acct & Collection Exp	1,385	855	642	1,092	571	1,125	1,372	3,029	1,075	944	1,184	1,857	1,848	1,306
Administrative & General Expense	1,527	1,443	1,748	1,494	1,492	1,501	1,497	10,462	1,325	1,414	1,475	1,475	1,463	2,178
Inter Div Management Fee	10,243	12,745	10,780	23,421	14,204	14,144	13,311	13,911	13,487	12,352	13,827	16,125	16,230	14,214
Total Operating Expense	21,333	31,764	29,219	38,900	26,064	34,177	36,710	45,195	28,991	24,490	33,909	45,169	34,828	33,135
Allocation Factor	12.33%	12.33%	12.33%	12.33%	12.33%	12.33%	12.33%	12.33%	12.33%	12.33%	12.33%	12.33%	12.33%	
Working Capital	2,630	3,916	3,603	4,796	3,214	4,214	4,526	5,573	3,575	3,020	4,181	5,569	4,294	4,085
Annualized	31,565	46,998	43,233	57,556	38,564	50,569	54,316	66,870	42,895	36,235	50,172	66,832	51,532	49,026

PITTSFIELD AQUEDUCT COMPANY COMPUTATION OF THIRTEEN MONTH AVERAGE BALANCE For The Thirteen Months Ended December 31, 2019

Schedule 3B

DESCRIPTION	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Average
Plant in Service	4,654,389	4,654,463	4,654,463	4,659,249	4,659,249	4,659,343	4,658,547	4,660,039	4,665,460	4,665,480	4,666,075	4,670,940	4,668,042	4,661,211
Accum Deprec	1,906,047	1,914,516	1,922,983	1,931,288	1,939,761	1,948,235	1,956,137	1,964,604	1,973,098	1,981,484	1,989,977	1,998,383	2,005,171	1,956,283
Accum Deprec: Loss	191,955	191,955	191,955	192,075	192,075	192,075	192,305	192,305	192,305	192,384	192,442	192,442	194,062	192,334
Accum Deprec: COR	241,875	241,884	241,884	242,448	242,448	242,448	242,448	242,456	242,456	242,464	242,529	242,562	242,584	242,345
CIAC	1,148,636	1,148,636	1,148,636	1,148,636	1,148,636	1,148,636	1,148,636	1,148,636	1,148,636	1,148,636	1,148,636	1,148,636	1,148,636	1,148,636
Reserve of CIAC Amort	474,807	476,723	478,638	480,554	482,469	484,385	486,300	488,215	490,131	492,046	493,962	495,877	497,793	486,300
O&M Allowance	31,565	46,998	43,233	57,556	38,564	50,569	54,316	66,870	42,895	36,235	50,172	66,832	51,532	49,026
Materials & Supplies	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prepayments	233	756	784	1,963	2,612	2,439	2,566	2,667	2,958	2,869	2,473	1,301	150	1,829
Other & Def Charges	1,237,794	1,234,736	1,231,611	1,228,485	1,225,360	1,222,236	1,219,111	1,207,014	1,203,889	1,200,763	1,197,638	1,194,512	1,191,387	1,214,964
Cust Advance	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cust Deposit	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Deferred Income Tax	508,474	508,474	508,474	508,474	508,474	508,474	508,474	508,474	508,474	508,474	508,474	508,474	510,342	508,618
Regulatory Liability	201,217	201,217	201,217	201,217	201,217	201,217	201,217	201,217	201,217	201,217	201,217	201,217	201,217	201,217
Unamortized ITC	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Deferred Rental Credits	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	3,068,243	3,074,671	3,061,257	3,072,715	3,044,688	3,046,931	3,041,127	3,036,636	3,008,668	2,992,430	2,996,986	3,007,755	2,980,184	3,033,255
MARA														
MARA	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MARA	1,220,575	1,217,775	1,214,907	1,212,039	1,209,170	1,206,302	1,203,434	1,200,566	1,197,698	1,194,830	1,191,962	1,189,094	1,186,226	1,203,429
Total MARA	1,220,575	1,217,775	1,214,907	1,212,039	1,209,170	1,206,302	1,203,434	1,200,566	1,197,698	1,194,830	1,191,962	1,189,094	1,186,226	1,203,429
Catamount Road	(40,287)	(40,168)	(40,049)	(39,929)	(39,810)	(39,691)	(39,572)	(39,453)	(39,333)	(39,214)	(39,095)	(38,976)	(38,857)	(39,572)
Total Forgivable Debt	(40,287)	(40,168)	(40,049)	(39,929)	(39,810)	(39,691)	(39,572)	(39,453)	(39,333)	(39,214)	(39,095)	(38,976)	(38,857)	(39,572)
-	(11) 11	(11) 11)	, ,,,,,,,,	, , , , , , , , ,	()))	()))	()) /	()) /	() /		(),)))	(),),)	()))))	, , ,

	Pittsfield Acqueduct Inc. Asset Additions For the Twelve Months Ended December 31, 2019									
Asset ID	Asset Description	Placed In Service	Book Cost	Years	Months	Half Yr Dep				
Town or Department: Barnstead Asset Type: PAC COMMUNICATION EQUIPMENT Asset GL Acct #: 346000-6000-001 600-00000054	Install Cellular Alarm - SCADA	8/1/2019	5,324.17	19	0	140.11				
600-00000055 Subtotal: 346000-6000-001	Install Cellular Alarm - SCADA	9/1/2019	135.07 5,459.24	19	0	3.55 143.66				
Asset Type: PAC ELECTRIC PUMPING EQUIPMENT: PUMPS Asset GL Acet #: 311210-6000-001 600-00000050	Pittsfield: Boost Pump and Motor Rebuild	7/1/2019	1,320.90	22	9	29.03				
Subtotal: 311210-6000-001			1,320.90			29.03				
Asset Type: PAC METERS Asset GL Acct #: 334000-6000-001										
600-00000047	5/8in. Pac Install New Meter: Pittsf	1/1/2019	74.59	20	11	1.78				
600-0000052 600-0000056	5/8in Install New Meter 5/8in. Pac Install New Meter: Pittsf	7/1/2019 9/1/2019	74.59 74.59	20 20	11 11	1.78 1.78				
600-00000057	5/8in Pac Install New Meter: Pittsf	10/1/2019	74.59	20	11	1.78				
600-00000037	650 - 5/8in. Pac Install New Meter: Pitt	11/1/2019	298.37	20	11	7.13				
600-00000064	1 In. Pac Install New Meter: Pittsfield	12/1/2019	298.37	20	11	4.79				
Subtotal: 334000-6000-001	mi. i ac mstan i www.weter. i ittshefd	12/1/2019	797.03	20	11	19.05				
Asset Type: PAC RADIOS FOR METERING EQUIPMENT Asset GL Acct #: 334100-6000-001										
600-00000049	Pac Neptune Radio Replacements: Pi	5/1/2019	93.82	20	11	2.24				
600-00000051	654 - Pac Neptune Radio Replacements	7/1/2019	96.88	20	11	2.32				
600-00000053	PAC Neptune Radio Replacements	8/1/2019	96.88	20	11	2.32				
600-00000058	654 - Pac Neptune Radio Replacements: Pi	10/1/2019	96.88	20	11	2.32				
600-00000062	654 - Pac Neptune Radio Replacements: Pi	11/1/2019	200.80	20	11	4.80				
600-00000065	Pac Neptune Radio Replacements	12/1/2019	100.40	20	11	2.40				
Subtotal: 334100-6000-001			685.66			16.39				
Asset Type: PAC RENEWED SERVICES Asset GL Acct #: 333200-6000-001										
600-00000048 Subtotal: 333200-6000-001	Catamount Road (#47): Pittsfield 1in.	3/1/2019	5,076.26 5,076.26	41	0	61.91 61.91				
Asset Type: PAC SERVICES Asset GL Acct #: 333100-6000-001										
600-0000063 Subtotal: 333100-6000-001	Fairview Road (#49): Pittsfield - 1in	11/1/2019	4,365.71 4,365.71	41	0	53.24 53.24				
Asset Type: PAC TRANS DIST MAINS - 6'' & LARGER Asset GL Acct #: 331100-6000-001										
600-0000059 600-0000060	Catamount RD Water Main Phase 2 Broadway Street Main Replacement	10/1/2019 10/1/2019	-4.50 509.40	63 63	8 8	(0.04) 4.00				
Subtotal: 331100-6000-001	Broadway Street Main Replacement	10/ 1/ 2019	509.40 504.90	05	0	4.00 3.97				
Grand Total			18,209.70			274.01				

Pittsfield Acqueduct Inc. Non Revenue Producing Capital Additions For the Twelve Months Ended December 31, 2019

Schedule 3

Attachment A Exhibit 2

Asset ID	Asset Description	Placed In Service		13		Book Cost	Test Yr Period	Test Yr Amount	Annualized Differential Pro Forma
Town or Department: Barnstead Asset Type:PAC COMMUNICATION EQUIPMENT									
Asset GL Acct #: 346000-6000-001									
600-00000054	Install Cellular Alarm - SCADA	8/1/2019	1	13	12	5,324.17	12/13	4,914.62	409.55
600-00000055	Install Cellular Alarm - SCADA	9/1/2019	2	13	11	135.07	11/13	114.29	20.78
Subtotal: 346000-6000-001						5,459.24		5,028.91	430.33
Asset Type: PAC ELECTRIC PUMPING EQUIPMENT: PUMPS									
Asset GL Acct #: 311210-6000-001									
600-00000050	Pittsfield: Boost Pump and Motor Rebuild	7/1/2019	2	13	11	1,320.90	11/13	1,117.68	203.22
Subtotal: 311210-6000-001						1,320.90		1,117.68	203.22
Asset Type: PAC METERS Asset GL Acct #: 334000-6000-001									
Life Yr Mo: 62 yr 6 mo									
600-00000047	5/8in. Pac Install New Meter-Replace Failed: Pittsf	1/1/2019	8	13	5	74.59	5/13	28.69	45.90
600-00000052	5/8in. Pac Install New Meter-Replace Failed: Pittsf	7/1/2019	10	13	3	74.59	3/13	17.21	57.38
600-00000056	5/8in. Pac Install New Meter-Replace Failed: Pittsf	9/1/2019	8	13	5	74.59		28.69	45.90
600-00000057	5/8in. Pac Install New Meter-Replace Failed: Pittsf	10/1/2019	8	13	5	74.59	,	28.69	45.90
600-00000064	1 in. Pac Install New Meter-Replace Failed: Pittsf	12/1/2019	10	13	3	200.30		46.22	154.08
Subtotal: 334000-6000-001						498.66		149.50	349.16
Asset Type: PAC RADIOS FOR METERING EQUIPMENT									
Asset GL Acct #: 334100-6000-001									
600-00000049	Pac Neptune Radio Replacements: Pi	5/1/2019	8	13	5	93.82		36.08	57.74
600-00000051	654 - Pac Neptune Radio Replacements	7/1/2019	10	13	3	96.88	3/13	22.36	74.52
600-00000053	PAC Neptune Radio Replacements	8/1/2019	8	13	5	96.88	5/13	37.26	59.62
600-00000058	654 - Pac Neptune Radio Replacements: Pi	10/1/2019	8	13	5	96.88	5/13	37.26	59.62
600-0000062	654 - Pac Neptune Radio Replacements: Pi	11/1/2019	8	13	5	200.80	5/13	77.23	123.57
600-00000065	Pac Neptune Radio Replacements	12/1/2019	10	13	3	100.40	- / -	23.17	77.23
Subtotal: 334100-6000-001						685.66		233.36	452.30
Asset Type: PAC RENEWED SERVICES									
Asset GL Acct #: 333200-6000-001									
600-00000048	Catamount Road (#47): Pittsfield 1in.	3/1/2019	5	13	8	5,076.26	8/13	3,123.85	1,952.41
Subtotal: 333200-6000-001						5,076.26		3,123.85	1,952.41
Asset Type: PAC TRANS DIST MAINS - 6" & LARGER									
Asset GL Acct #: 331100-6000-001									
600-00000059	Catamount RD Water Main Phase 2	10/1/2019	8	13	5	-4.50		(1.73)	(2.77)
600-0000060	Broadway Street Main Replacement	10/1/2019	8	13	5	509.40		195.92	313.48
Subtotal: 331100-6000-001						504.90		194.19	310.71
Subtotal: Plaistow (1)						13,545.62		9,847.50	3,698.12
Grand Total						13,545.62		9,847.50	3,698.12

Pittsfield Acqueduct Inc. Asset Dispositions For the Twelve Months Ended December 31, 2019

Schedule 3
Attachment A
Exhibit 3

Description	Placed In Service	Disposal Date	Cost	Depr	Net Proceeds	Accum Loss	Years	Months	Depr Exp	Half Year Depr Exp
	- // // 000		107 74	107.51						
PH METER	7/1/1998 6/1/2012	12/31/2019	407.51 678.95	407.51 237.67	-	-	20.00 20.00	-	-	-
Purchase New DR5000 Analyzer - Quartz Po	6/1/2012	12/31/2019	1,107.00	387.37	-	(441.28)	20.00	-	16.97	16.98
Purchase New DR5000 Analyzer - db POUR-T	0/1/2012	12/31/2019	2,193.46			(719.63)	20.00	-	27.68	27.66
			2,175.40	1,032.55	-	(1,160.91)			44.65	44.64
5/8 New Meter Exchanges: Pittsfield	9/1/2014	12/31/2019	125.59	30.00	-	(95.59)	20.00	11.00	3.00	3.00
5/8 Meters: Pittsfield - (6)	9/1/2005	6/30/2019	585.60	394.39	-	(191.21)	20.00	11.00	13.82	6.91
5/8 Meters: Pittsfield - (2)	9/1/2005	12/31/2019	195.26	114.48	-	(80.78)	-	-	-	-
5/8 Meters: Pittsfield - (2)	9/1/2005	3/31/2019	195.26	114.49	-	(80.77)	-	-	-	-
5/8 Meters: Pittsfield - (4)	9/1/2005	12/31/2019	390.52	228.97	-	(161.55)	-	-	-	-
			1,492.23	882.33	-	(609.90)			16.82	9.91
Neptune Radio Replacements: Pittsfield	4/1/2013	10/31/2019	81.40	23.21	-	(58.19)	20.00	11.00	1.95	1.92
Neptune Radio Installs: Pittsfield - (2)	9/1/2005	9/30/2019	190.01	111.56	-	(78.45)	-	-	-	-
Neptune Radio Installs: Pittsfield - (1)	9/1/2005	3/31/2019	95.00	55.78	-	(39.22)	-	-	-	-
Neptune Radio Installs: Pittsfield - (1)	9/1/2005	6/30/2019	95.01	55.78	-	(39.23)	-	-	-	-
Neptune Radio Installs: Pittsfield - (3)	9/1/2005	12/31/2019	293.16	172.10	-	(121.06)	-	-	-	-
			754.58	418.43	-	(336.15)			1.95	1.92
Catamount Road (#47): Pittsfield - 1 CT	7/1/1978	6/30/2019	115.56	115.56	-	_	41.00	-	2.91	2.88
		0,00,2010	115.56	115.56	-	-			2.91	2.88
			4,555.83	2,448.87	-	(2,106.96)	-	-	66.33	59.35
			4,555.83	2,448.87	-	(2,106.96)	-	-	66.33	59.35

Pittsfield Acqueduct Inc. Non Revenue Producing Capital Retirements For the Twelve Months Ended December 31, 2019

Schedule 3 Attachment A Exhibit 4

Asset ID	Description	Placed In Service	Disposal Date		13		Book Cost	Test Yr Period	Test Yr Amount	Annualized Differential Pro Forma
Town or Department: Barnstead										
Asset Type: LABORATORY EQUIPMENT										
Asset GL Acct #: 344000-6000-001										
60000-000041	PH METER	7/1/1998	12/31/2019	3	13	10	407.51	10/13	313.47	94.04
60000-001131	Purchase New DR5000 Analyzer - Quartz Po	6/1/2012	12/31/2019	3	13	10	678.95	10/13	522.27	156.68
60000-001133	Purchase New DR5000 Analyzer - db POUR-T	6/1/2012	12/31/2019	6	13	7	1,107.00	7/13	596.08	510.92
Subtotal: 344000-6000-001							2,193.46		1,431.82	761.64
Asset Type: PAC METERS										
Asset GL Acct #: 334000-6000-001										
60000-001299	5/8 New Meter Exchanges: Pittsfield	9/1/2014	12/31/2019	9	13	4	125.59	4/13	38.64	86.95
60000-00199.41-001	5/8 Meters: Pittsfield - (6)	9/1/2005	6/30/2019	3	13	10	585.60	10/13	450.46	135.14
60000-0199.494	5/8 Meters: Pittsfield - (2)	9/1/2005	12/31/2019	3	13	10	195.26	10/13	150.20	45.06
60000-0199.494-003	5/8 Meters: Pittsfield - (2)	9/1/2005	3/1/2019	3	13	10	195.26	10/13	150.20	45.06
60000-0199.496	5/8 Meters: Pittsfield - (4)	9/1/2005	12/31/2019	3	13	10	390.52	10/13	300.40	90.12
Subtotal: 334000-6000-001							1,492.23		1,089.90	402.33
Asset Type: PAC RADIOS FOR METERING EQUIPMENT										
Asset GL Acct #: 334100-6000-001										
60000-001183	Neptune Radio Replacements: Pittsfield	4/13/2013	10/31/2019	6	13	7	81.40	7/13	43.83	37.57
60000-0199.513	Neptune Radio Installs: Pittsfield - (2)	9/1/2005	9/30/2019	12	13	1	190.01	1/13	14.62	175.39
60000-0199.513-005	Neptune Radio Installs: Pittsfield - (1)	9/1/2005	3/31/2019	3	13	10	95.00	10/13	73.08	21.92
60000-0199.513-006	Neptune Radio Installs: Pittsfield - (1)	9/1/2005	6/30/2019	3	13	10	95.01	10/13	73.08	21.93
60000-0199.595-001	Neptune Radio Installs: Pittsfield - (3)	9/1/2005	12/31/2019	9	13	4	293.16	4/13	90.20	202.96
Subtotal: 334100-6000-001							754.58		294.81	459.77
Asset Type: PAC SERVICES										
Asset GL Acct #: 333100-6000-001										
60000-000108.8	Catamount Road (#47): Pittsfield - 1 CT	7/1/1978	6/30/2019	4	13	9	115.56	9/13	80.00	35.56
Subtotal: 333100-6000-001			0,00,2000			ŕ	115.56	.,	80.00	35.56
Subtotal: Barnstead Grand Total							4,555.83 4,555.83		2,896.53 2,896.53	1,659.30 1,659.30
Grand Total							+,555.65		2,070.55	1,059.50

TAB 13

1604.08 Rate of Return Schedules

Schedule 1

Pittsfield Aqueduct Company **Overall Rate of Return Proforma** For the Twelve Months Ended December 31, 2019

<u>Capital Component</u>	<u>Amount</u> 12/31/19	<u>Proforma</u>	Proforma Amount <u>12/31/19</u>	<u>Proforma</u> Component Ratio	<u>Component</u> <u>Cost Rate</u> 12/31/2019	<u>Proforma</u> Component Cost <u>Rate</u>	<u>Profroma</u> Average Cost <u>Rate</u>
Long-term Debt (3)	1,312,186 (3)	-	1,312,186	64.58%	3.25%	3.25%	2.10%
Intercompany Debt (3)	14,674	-	14,674	0.72%	3.31%	3.31% (1)	0.02%
Preferred Stock	-			0.00%	0.00%	0.00%	0.00%
Common Equity	1,768,307	(1,063,241) (4)	705,066	34.70%	4.85%	4.85% (2)	1.68%
Overall Rate of Return	\$ 3,095,167		<u>\$2,031,926</u>	<u>100.00</u> %			<u>3.81</u> %

Notes:

(1) The interest reflected is the effective interest rates for 2019 per Schedule F-35 of the Annual Report.

(2) The return on equity based on methodolog used in Order 25,292 in DW 11-026 is as follows: Average prior 12 mos (Aug 2019-Jul

2020) 30 year Treasury bonds 1.85% Plus 3.0% 3.00% Total 4.85%

(3) Inclusive of 2018 pcp/PAC LONG term intercompany approved in DW18-033
 (4) Per Order 25,292 in DW 11-026, eliminate the MARA and related equity per Schedule 2 as required by DW11-026

Pittsfield Aqueduct Company Capital Structure for Ratemaking Purposes For the Twelve Months Ended December 31, 2019

	<u>Test Year</u>	<u>Pro Forma</u> Adjustments	<u>Pro Forma</u> <u>Test Year</u>	<u>Component</u> <u>Ratio</u>
Long-term Debt	1,312,186	-	1,312,186	64.58%
Intercompany Debt	\$ 14,674	-	14,674	0.72%
Common Equity: Common Stock Paid In Capital Comprehensive Income Retained Earnings Total Common Equity	 100 1,899,596 - (131,389) 1,768,307	(100) (1,063,241) (1) -	836,355 - (131,389) 704,966	34.70%
Total Capital	\$ 3,095,167		<u>\$ 2,031,826</u>	100.00%

Notes:

 (1) Per Order 25,292 in DW 11-026, eliminate the MARA and related equity:

 Equity as of 1/25/1
 826,112

 Paid in Capital as of 1/25/12
 237,129

 1,063,241
 1,063,241

Schedule 2

Pittsfield Aqueduct Company Historical Capital Structure For the Twelve Months Ended December 31, 2015 - 2019

Schedule 3

	<u>2019</u>	<u>2018</u>	<u>2017</u>	<u>2016</u>	<u>2015</u>
Bonds Intercompany Note Other LTD	- 1,147,728 164,458	1,172,125 168,331	- 776,850 171,163	- 776,850 58,117	- 776,850 -
Long-term Debt	\$ 1,312,186	\$ 1,340,456 \$	948,013 \$	834,967 \$	776,850
Intercompany Debt	14,674	85,570	423,622	443,407	465,569
Common Equity: Common Stock Paid In Capital Comprehensive Income	100 1,899,596 -	100 1,935,318 -	100 2,064,824 -	100 2,185,204 -	100 2,224,208 -
Retained Earnings	(131,389)	(137,454)	(23,553)	3,028	52,358
Total Common Equity	\$ 1,768,307	\$ 1,797,964 \$	2,041,371 \$	2,188,332 \$	2,276,666
Total Capital	\$ 3,095,167	\$ 3,223,990 \$	3,413,005 \$	3,466,706 \$	3,519,085
Long-term Debt	42.39%	41.58%	27.78%	24.09%	22.08%
Total Common Equity	57.13%	55.77%	59.81%	63.12%	64.69%
Intercompany Debt	<u>0.47%</u>	<u>2.65%</u>	<u>12.41%</u>	<u>12.79%</u>	<u>13.23%</u>
Total Capital	<u>100.00%</u>	<u>100.00%</u>	<u>100.00%</u>	<u>100.00%</u>	<u>100.00%</u>

Pittsfield Aqueduct Company Historical Capitalization Ratios Schedule 4 For the Twelve Months Ended December 31, 2015 - 2019

	<u>2019</u>	<u>2018</u>	<u>2017</u>	<u>2016</u>	<u>2015</u>
Long-term Debt	42.39%	41.58%	27.78%	24.09%	22.08%
Total Common Equity	57.13%	55.77%	59.81%	63.12%	64.69%
Intercompany Debt	<u>0.47%</u>	<u>2.65%</u>	<u>12.41%</u>	<u>12.79%</u>	<u>13.23%</u>
Total Capital	<u>100.00%</u>	<u>100.00%</u>	<u>100.00%</u>	<u>100.00%</u>	<u>100.00%</u>

Pittsfield Aqueduct Company Weighted Average Cost of Long-Term Debt For the Twelve Months Ended December 31, 2019

Schedule 5

Holder	Term	Maturity		Outstanding Balance as of 12/31/19	New Debt Added in 2020	Annual		All In Annual Cost	Effective Rate	2019 TY Principal	2019 TY Interest Payments		Adj to 2019 Th	1 2019 Pro Form Adj to 2019 T Interest	n 2019 TY Pro Form / Principal and Interest Payments	2020 Principal	2020 Interes Payments	2020 Principal and Interest Payments
Holder	Term	Maturity	Rate	12/31/19	Added in 2020	Interest (1)	Issue Costs	Cost	Rate	Payments(9)	Payments	Payments	Principal	Interest	Interest Payments	Payments	Payments	Interest Payments
SRF Catamount Road Intercompany Loan from PCP (1) TOTAL	30 30	04/30/48 05/31/48	3.168% 3.200%	164,458 1,147,728	-	5,210 36,727	673 75	5,883 36,802	3.58% 3.21%		\$ 3,265 \$ 37,973	\$	\$ 113 \$ 0	\$ (77 \$ -) \$ 5,744 \$ 62,084	\$ 2,556 \$ 24,111	\$ 3,18 \$ 37,97	\$ 62,084
TOTAL				1,312,186	-	41,937	748	42,685	3.25%	\$ 26,554	\$ 41,238	\$ 67,791	\$ 113	\$ (77) \$ 67,828	\$ 26,667	\$ 41,16	\$ 67,828
Notes:																		

(1) Intercompany debt aapproved in DW18-033 -	\$ 1,186,000
Loan Term -	30 Year
Loan Interest Rate -	3.20%
Annual P&I -	\$62,084

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Pittsfield Aqueduct Company Short-Term and Long-Term Intercompany Debt For the Thirteen Months Ended December 31, 2019											Schedule 6			
	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	13 Month Average
NOTE PAYABLE - PCP 2018 1.1M LOAN	1,147,728	1,145,660	1,143,586	1,141,506	1,139,421	1,137,331	1,135,234	1,133,133	1,131,025	1,128,912	1,126,794	1,124,669	1,122,540	1,135,195
NOTE PAYABLE - PCP 2018 1.1M LOAN-CURRENT PORTION	24,396	24,462	24,527	24,592	24,658	24,723	24,789	24,856	24,922	24,988	25,055	25,122	25,189	24,791
TOTAL LONG TERM INTERCOMPANY DEBT	1,172,125	1,170,121	1,168,113	1,166,098	1,164,079	1,162,054	1,160,024	1,157,988	1,155,947	1,153,901	1,151,849	1,149,791	1,147,728	1,159,986
INTERCO PAY/REC: PAC/PCP INTERCO PAY/REC: PAC/TSC INTERCO PAY/REC: PAC/PWS	72,615	(2,878)	5,839	(50,214)	(100,125)	(160,809) - (63)	(105,101) - (63)	(173,857) - (63)	(203,044) 	(260,915)	(339,032) 	(368,432) - (64)	1,719	(129,556) - (34)
AP INTERCO PAY/REC:PEU/PAC	-	335	335	335	335	335	335	3,099	4,699	4,460	6,674	12,977	-	2,609
INTERCO PAY/REC: PAC/PWW		25,931	48,422	92,458	114,971	141,261	168,609	199,694	226,148	249,157	275,416	311,404		142,575
INTERCO LOAN PWW/PAC: RSF INTERCO PAY/REC: PAC/PEU	12,955	12,955	12,955	12,955	12,955	12,955	12,955 1,006	12,955 1.003	12,955 1.014	12,955 1.027	12,955 1.070	12,955 1.091	12,955	12,955 478
INTERCO ADV-PCP PROM NOTE 5/18		-		- 2	-	- "	1,000	-	1,014	1,027	1,070	1,051		470
INTERCO LOAN PAC - INTERGRATED	-	-	-	-	-	-	-	-	-	-	-	-	-	-
INTERCOMPANY SHORT TERM DEBT	85,570	36,343	67,551	55,535	28,138	(6,318)	77,740	42,830	41,708	6,621	(42,981)	(30,069)	14,674	29,026
TOTAL INTERCOMPANY DEBT	1,257,695	1,206,464	1,235,664	1,221,634	1,192,217	1,155,736	1,237,764	1,200,818	1,197,655	1,160,521	1,108,868	1,119,722	1,162,402	1,189,012

Pittsfield Aqueduct Company Weighted Average Cost of Preferred Stock For the Twelve Months Ended December 31, 2012

Schedule 7

				Outstanding	Annual	Annual	All In Annual	Effectve
Security 7	Гerm	Maturity	Rate	Balance	Dividends	Amortization	Cost	Rate

NOT APPLICABLE

Pittsfield Aqueduct Company Return on Common Equity For the Twelve Months Ended December 31, 2019

Schedule 8

Source: 30 yr treasury rates used by S&P

Date	Open	High	Low	Close
Aug 2019				2.1200%
Sept 2019				2.1600%
Oct 2019				2.1900%
Nov 2019				2.2800%
Dec 2019				2.3000%
Jan 2020				2.2200%
Feb 2020				1.9700%
Mar 2020				1.4600%
Aprl 2020				1.2700%
May 2020				1.3800%
Jun 2020				1.4900%
Jul 2020				1.3100%
	0 year Treasury b	onds	Average	1.8458%
	, ,		Plus	3.0000%
			Cost of Equity	4.8458%

Used rates in the 12 months prior to the rate filing

TAB 14

Permanent Rate Tariff Pages

NHPUC NO. 5 WATER

Ninth Tenth Revised Page 38

PITTSFIELD AQUEDUCT COMPANY, INC.

Superseding Eight Ninth Revised Page 38

GENERAL SERVICE – METERED TOWN OF PITTSFIELD SCHEDULE GM

Application:

This schedule is applicable to all metered water service in the Town of Pittsfield, NH, except municipal and private fire protection.

Character of Service:

Service shall consist of the production, treatment, and distribution of water for all residential, commercial and industrial requirements of customers whose premises abut any public street, road or way in which the Company has mains; provided, however, that such service shall only be rendered pursuant to the Terms and Conditions prescribed in other sections of this Tariff and the Rules of the New Hampshire Public Utilities Commission for Water Service.

Rates:

A minimum customer charge shall be made for each customer to whom service is rendered under this tariff, based on the meter size shown below:

<u>Size</u>	Monthly Minimum <u>Charge</u>
5/8"	\$ <u>24.49</u> 27.23
3/4"	34.89 38.79
1"	52.69 58.58
1 1/2"	95. 09 105.72
2"	147. 10 163.55
3"	273. 29 <mark>303.84</mark>
4"	447. 87 <mark>497.94</mark>
6"	893. 36 <mark>993.24</mark>
8"	1,485.85 1,651.97

Volumetric Rate:

In addition to the minimum charge, the volumetric charge, based on usage shall be:

Volumetric Charge

\$7.20\$6.48 per 100 cu. ft.

Terms of Payments:

Bills under this rate are net; will be rendered monthly, and are due and payable at the office of the Company on the due date as stated on water bill.

Issued: July 22,2014 November 16, 2020 Issued by: Donald L. Ware

Donald L. Ware

Effective: July 22,2014 December 17, 2020 Title: Chief Operating Officer

Authorized by NHPUC Order No. 25.695 Docket No. DW 13-128, dated July 22, 2014.

NHPUC NO. 5 WATER

Tenth Ninth Revised Page 39

PITTSFIELD AQUEDUCT COMPANY, INC.

Superseding Eight Ninth Revised Page 39

MUNICIPAL FIRE PROTECTION SERVICE TOWN OF PITTSFIELD SCHEDULE FP-M

Application:

This rate is applicable to municipal fire protection in the Town of Pittsfield.

Character of Service:

The Company will exercise due effort to maintain at all times the normal pressures on the distribution system, but the Company shall not be held liable for the failure of either the supply or distribution division of its system to furnish its normal quantity of water at adequate pressure when such failure is due to the elements, natural causes, breaks, leaks, unusual or recurrent drafts, or the excess or unlawful use of water.

Rate:

The monthly charge for municipal fire protection service shall be made up of two parts, as follows:

Monthly Charge

1. Hydrant Charge

For each hydrant connected to the distribution system

\$105.5494.93 per month

2. Inch-Foot Charge

The number of "inch-foot" units in the distribution system is to be obtained by multiplying the number of linear feet of pipe of each diameter (6" and larger) by the diameter in inches. The total number of "inch-foot" units in the distribution system will be determined as of January 1st each year, and will be the basis for computing the "inch-foot" charge for the entire year with one-twelfth to be billed each month.

Charge for each inch-foot unit to be

\$0.222370.20001 per year

Terms of Payment:

Bills under this rate are net; will be rendered monthly, and are due and payable at the office of the Company on the due date as stated on water bill.

Issued: <u>July 22, 2014November 16, 2020</u> <u>Issued by: Donald L. Ware</u> Donald L. Ware

Effective: July 22, 2014 December 17, 2020 Title: Chief Operating Officer

Authorized by NHPUC Order No. 25,695 Docket No. DW 13-128, dated July 22, 2014.

NHPUC NO. 5 WATER

Ninth Tenth Revised Page 40

PITTSFIELD AQUEDUCT COMPANY, INC.

Superseding Ninth Eight-Revised Page 40

PRIVATE FIRE PROTECTION SERVICE TOWN OF PITTSFIELD SCHEDULE FP-P

Application:

This schedule is applicable to fire protection in the Town of Pittsfield other than municipal, such as private hydrants, fire hose outlets and sprinkler systems, connected to the Company's distribution system.

Character of Service:

The Company will exercise due effort to maintain at all times the normal pressures on the distribution system, but the Company shall not be held liable for the failure of either the supply or distribution division of its system to furnish its normal quantity of water at adequate pressure when such failure is due to the elements, natural causes, breaks, leaks, unusual or recurrent drafts, or the excess or unlawful use of water.

Rates - MONTHLY:	Monthly <u>Charge</u>
For each 4-inch connection or service	\$ 67.68 75.25
For each 6-inch connection or service	\$ 194.21 215.92
For each 8-inch connection or service	\$ 412.474 58.58

Terms of Payment:

Bills under this rate are net; will be rendered monthly, and are due and payable at the office of the Company on the due date as stated on water bill.

Issued: July 22, 2014November 16, 2020 Issued by: Donald L. Ware

sued by: Donald L. Ware Donald L. Ware

Effective: July 22, 2014 December 17, 2020 Title: Chief Operating Officer

Authorized by NHPUC Order No. 25,695 Docket No. DW 13-128, dated July 22, 2014.

NHPUC NO 5 WATER

Proposed Third Fourth Revised Page 44

PITTSFIELD AQUEDUCT COMPANY, INC.

Superseding Second-Third Page 44

RATE SCHEDULE

GENERAL SERVICE – NON-METERED

TOWN OF PITTSFIELD

Pittsfield Aqueduct Company, Inc. (PAC) will charge current unmetered customers a monthly rate as specified below based on the average single family residential usage as specified below until such time as meters are installed.

Commercial, Industrial and Private Fire Protection customers will be charged an average Rate as calculated for a similar customer in PAC.

PAC will make every effort to install meters in a timely manner and in no such case should these rates remain in force for more than a twelve month period.

Temporary Rate

5/8" Meter Charge	\$24.49 27.23 per month
Volumetric Charge Average Single Family Residential Usage	\$ 6.48 7.20 <u>5.83 5.19 CCF</u> <u>\$ 37.78</u> 37.37
Total Monthly Charge	\$ 62.27 -64.60
Annually	\$ 747.24 775.20

Issued:	July 22, 2014November 16, 2020	Issued by: Donald L. Ware Donald L. Ware
Effective:	July 22, 2014December 17, 2020	Title: Chief Operating Officer
Authorized by NHPUC Order No. 25,695 Docket No. DW 13-128, dated July 22, 2014.		

Proposed Second Third Revised 46

PITTSFIELD AQUEDUCT COMPANY, INC.

Superseding First Second Page 46

GENERAL SERVICE – METERED TOWN OF PITTSFIELD FIRE DEPARTMENT SCHEDULE GM

Application:

This schedule is applicable to metered water service for the Fire Department in the Town of Pittsfield, NH.

Character of Service:

Service shall consist of the production, treatment, and distribution of water for all residential, commercial and industrial requirements of customers whose premises abut any public street, road or way in which the Company has mains; provided, however, that such service shall only be rendered pursuant to the Terms and Conditions prescribed in other sections of this Tariff and the Rules of the New Hampshire Public Utilities Commission for Water Service.

Rates:

The Fire Department for the Town of Pittsfield shall be charged only for usage over 14 ccf of water per month. There will be no charge for the monthly customer charge.

Volumetric Rate:

The volumetric charge based on usage over 14 ccf shall be:

\$7.206.48 per 100 cu. ft.

Volumetric Charge: Terms of Payments:

Bills under this rate are net; will be rendered monthly, and are due and payable at the office of the Company on the due date as stated on water bill.

Issued: July 22, 2014November 16, 2020

Issued by: Donald L. Ware Donald L. Ware

Effective: July 22, 2014 December 17, 2020

Title: Chief Operating Officer

Authorized by NHPUC Order No. 25,695 Docket No. DW 13-128, dated July 22, 2014.

Tenth Revised Page 38

PITTSFIELD AQUEDUCT COMPANY, INC.

Superseding Ninth Revised Page 38

GENERAL SERVICE – METERED TOWN OF PITTSFIELD SCHEDULE GM

Application:

This schedule is applicable to all metered water service in the Town of Pittsfield, NH, except municipal and private fire protection.

Character of Service:

Service shall consist of the production, treatment, and distribution of water for all residential, commercial and industrial requirements of customers whose premises abut any public street, road or way in which the Company has mains; provided, however, that such service shall only be rendered pursuant to the Terms and Conditions prescribed in other sections of this Tariff and the Rules of the New Hampshire Public Utilities Commission for Water Service.

Rates:

A minimum customer charge shall be made for each customer to whom service is rendered under this tariff, based on the meter size shown below:

<u>Size</u>	Monthly Minimum <u>Charge</u>
5/8"	\$ 27.23
3/4"	38.79
1"	58.58
1 1/2"	105.72
2"	163.55
3"	303.84
4"	497.94
6"	993.24
8"	1,651.97

Volumetric Rate:

In addition to the minimum charge, the volumetric charge, based on usage shall be:

Volumetric Charge

\$7.20 per 100 cu. ft.

Terms of Payments:

Bills under this rate are net; will be rendered monthly, and are due and payable at the office of the Company on the due date as stated on water bill.

Issued: November 16, 2020

Issued by: Donald L. Ware

Effective: December 17, 2020

Tenth Revised Page 39

PITTSFIELD AQUEDUCT COMPANY, INC.

Superseding Ninth Revised Page 39

MUNICIPAL FIRE PROTECTION SERVICE TOWN OF PITTSFIELD SCHEDULE FP-M

Application:

This rate is applicable to municipal fire protection in the Town of Pittsfield.

Character of Service:

The Company will exercise due effort to maintain at all times the normal pressures on the distribution system, but the Company shall not be held liable for the failure of either the supply or distribution division of its system to furnish its normal quantity of water at adequate pressure when such failure is due to the elements, natural causes, breaks, leaks, unusual or recurrent drafts, or the excess or unlawful use of water.

Rate:

The monthly charge for municipal fire protection service shall be made up of two parts, as follows:

Monthly Charge

1. Hydrant Charge

For each hydrant connected to the distribution system \$105.54 per month

2. Inch-Foot Charge

The number of "inch-foot" units in the distribution system is to be obtained by multiplying the number of linear feet of pipe of each diameter (6" and larger) by the diameter in inches. The total number of "inch-foot" units in the distribution system will be determined as of January 1st each year, and will be the basis for computing the "inch-foot" charge for the entire year with one-twelfth to be billed each month.

Charge for each inch-foot unit to be

\$0.22237 per year

Terms of Payment:

Bills under this rate are net; will be rendered monthly, and are due and payable at the office of the Company on the due date as stated on water bill.

Issued: November 16, 2020

Issued by: Donald L. Ware

Effective: December 17, 2020

Tenth Revised Page 40

PITTSFIELD AQUEDUCT COMPANY, INC.

Superseding Ninth Revised Page 40

PRIVATE FIRE PROTECTION SERVICE TOWN OF PITTSFIELD SCHEDULE FP-P

Application:

This schedule is applicable to fire protection in the Town of Pittsfield other than municipal, such as private hydrants, fire hose outlets and sprinkler systems, connected to the Company's distribution system.

Character of Service:

The Company will exercise due effort to maintain at all times the normal pressures on the distribution system, but the Company shall not be held liable for the failure of either the supply or distribution division of its system to furnish its normal quantity of water at adequate pressure when such failure is due to the elements, natural causes, breaks, leaks, unusual or recurrent drafts, or the excess or unlawful use of water.

Rates - MONTHLY:	Monthly <u>Charge</u>
For each 4-inch connection or service For each 6-inch connection or service	\$ 75.25 \$ 215.92
For each 8-inch connection or service	\$ 458.58

Terms of Payment:

Bills under this rate are net; will be rendered monthly, and are due and payable at the office of the Company on the due date as stated on water bill.

Issued: November 16, 2020

Issued by: Donald L. Ware

Effective: December 17, 2020

PITTSFIELD AQUEDUCT COMPANY, INC.

Fourth Revised Page 44

Superseding Third Page 44

RATE SCHEDULE

GENERAL SERVICE – NON-METERED

TOWN OF PITTSFIELD

Pittsfield Aqueduct Company, Inc. (PAC) will charge current unmetered customers a monthly rate as specified below based on the average single family residential usage as specified below until such time as meters are installed.

Commercial, Industrial and Private Fire Protection customers will be charged an average Rate as calculated for a similar customer in PAC.

PAC will make every effort to install meters in a timely manner and in no such case should these rates remain in force for more than a twelve month period.

5/8" Meter Charge	\$ 27.23 per month
Volumetric Charge Average Single Family Residential Usage	\$ 7.20 <u>5.19 CCF</u> <u>\$ 37.37</u>
Total Monthly Charge	<u>\$ 64.60</u>
Annually	<u>\$ 775.20</u>

Issued: November 16, 2020

Issued by: Donald L. Ware

Effective: December 17, 2020

PITTSFIELD AQUEDUCT COMPANY, INC.

Third Revised 46

Superseding Second Page 46

GENERAL SERVICE – METERED TOWN OF PITTSFIELD FIRE DEPARTMENT SCHEDULE GM

Application:

This schedule is applicable to metered water service for the Fire Department in the Town of Pittsfield, NH.

Character of Service:

Service shall consist of the production, treatment, and distribution of water for all residential, commercial and industrial requirements of customers whose premises abut any public street, road or way in which the Company has mains; provided, however, that such service shall only be rendered pursuant to the Terms and Conditions prescribed in other sections of this Tariff and the Rules of the New Hampshire Public Utilities Commission for Water Service.

Rates:

The Fire Department for the Town of Pittsfield shall be charged only for usage over 14 ccf of water per month. There will be no charge for the monthly customer charge.

Volumetric Rate:

The volumetric charge based on usage over 14 ccf shall be:

Volumetric Charge:

\$7.20 per 100 cu. ft.

Terms of Payments:

Bills under this rate are net; will be rendered monthly, and are due and payable at the office of the Company on the due date as stated on water bill.

Issued: November 16, 2020

Issued by: Donald L. Ware

Effective: December 17, 2020

Summary of Puc 1604.01(a) 'Contents of a Full Rate Case' Documents

TAB	Document	Authority	
16	Internal Financial Reports	Puc 1604.01(a)(1)	
17	Annual Reports to Stockholders	Puc 1604.01(a)(2)	Data Not Exist
18	Federal Income Tax Reconciliation	Puc 1604.01(a)(3)	
19	Detailed Tax Factor Computation	Puc 1604.01(a)(4)	
20	Detailed Charitable Contribution	Puc 1604.01(a)(5)	Data Not Exist
21	List of Advertising	Puc 1604.01(a)(6)	Data Not Exist
22	Most Recent Cost of Service Study	Puc 1604.01(a)(7)	
23	Most Recent Construction Budget	Puc 1604.01(a)(8)	
24	Chart of Accounts if Different than NHPUC	Puc 1604.01(a)(9)	Data Not Exist
25	Securities and Exchange Commission 10K and 10Q	Puc 1604.01(a)(10)	Data Not Exist
26	Membership Fees, Dues and Lobbying Expenses	Puc 1604.01(a)(11)	
27	Depreciation Study	Puc 1604.01(a)(12)	
28	Management and Financial Audits	Puc 1604.01(a)(13)	
29	Officer and Director Compensation	Puc 1604.01(a)(14)	Data Not Exist, See Tab 33
30	Officer and Executive Incentive Plans	Puc 1604.01(a)(15)	Data Not Exist
31	List of Amount of Voting Stock	Puc 1604.01(a)(16)	Data Not Exist
32	Payments for Contractual Services in Excess of \$50,000	Puc 1604.01(a)(17)	
33	Amount of Assets and Costs Allocated to Non-Utility Operations	Puc 1604.01(a)(18)	
34	Balance Sheets and Income Statements for Previous Two Years	Puc 1604.01(a)(19)	
35	Quarterly Income Statements for Previous Two Years	Puc 1604.01(a)(20)	
36	Quarterly Sales Volumes	Puc 1604.01(a)(21)	
37	Projected Need for External Capital	Puc 1604.01(a)(22)	
38	Capital Budget - Sources and Uses	Puc 1604.01(a)(23)	
39	Outstanding Short-Term Debt on Monthly Basis for Each Indebtedness	Puc 1604.01(a)(24)	See Tab 13
40	Certificate of Details of Management Fee Information	Puc 1604.01(a)(25)	See Tabs 3 and 33

Summary (Index) of Full Rate Case Schedules per Puc 1604.01(a)

1604.01(a)(1) Internal Financial Reports for the first and last month of the test year; for the entire test year; and for the 12 months or 5 quarters prior to the test year.

PITTSFIELD AQUEDUCT Profit and Loss Statement January - December 2018

	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Total 2018
WATER SALES	58,394.71	44,269.22	56,034.50	54,365.32	48,460.88	56,518.10	59,832.11	49,624.81	54,389.32	46,758.82	54,217.60	58,963.27	641,828.66
CBFRR REVENUES	12,213.25	12,213.25	12,213.25	12,213.25	12,213.25	12,213.25	12,213.25	12,213.25	12,213.25	12,213.25	12,213.25	12,213.25	146,559.00
MISC OPERATING REVENUE	171.00	580.00	226.00	66.00	132.00	344.00	192.00	601.00	161.00	252.00	325.00	121.00	3,171.00
TOTAL REVENUES	70,778.96	57,062.47	68,473.75	66,644.57	60,806.13	69,075.35	72,237.36	62,439.06	66,763.57	59,224.07	66,755.85	71,297.52	791,558.66
PRODUCTION EXPENSES	13,059.18	7,357.20	13,140.51	6,415.20	8,473.86	6,641.67	8,657.13	18,528.22	11,670.85	13,040.88	13,827.39	7,477.64	128,289.73
TRANSMISSION AND DISTRIB EXP	6,570.42	2,147.10	3,210.88	5,732.28	6,699.67	7,536.33	14,487.27	12,641.60	2,704.69	7,716.14	3,663.99	700.85	73,811.22
CUSTOMER ACCT & COLLECTION EXP	223.17	737.19	828.64	1,672.26	651.59	952.91	2,160.49	1,170.13	604.95	599.61	1,566.52	1,384.84	12,552.30
ADMINISTRATIVE & GENERAL EXP	1,764.14	4,397.96	1,851.25	1,770.53	1,567.72	1,770.63	1,862.51	1,917.80	1,878.64	2,028.41	1,641.70	1,527.05	23,978.34
INTERCO MGMT FEE: PWW	15,908.00	14,926.00	15,261.00	14,200.00	16,372.00	14,730.00	17,336.00	15,862.00	13,076.00	15,150.00	15,434.00	10,425.00	178,680.00
INTERCOMPANY MGMT FEE: PCP	510.00	369.00	614.00	413.00	347.00	320.00	249.00	488.00	443.00	394.00	675.00	(182.00)	4,640.00
TOTAL OPERATING EXPENSES	38,034.91	29,934.45	34,906.28	30,203.27	34,111.84	31,951.54	44,752.40	50,607.75	30,378.13	38,929.04	36,808.60	21,333.38	421,951.59
DEPRECIATION EXPENSE: PAC	8 402 (1	9 400 29	0 407 51	0 407 52	9 400 95	8 500 87	9 505 94	8 506 24	9 412 77	0 400 51	8 4(0 20	0 464 99	101 827 28
AMORTIZATION EXPENSE: CIAC	8,492.61	8,499.38	8,497.51	8,496.53	8,499.85	8,500.86	8,505.84	8,506.34	8,413.77	8,489.51	8,469.30	8,464.88	101,836.38
	(1,915.58)	(1,915.53) 2,800.17	(1,915.60) 2.800.17	(1,915.51) 2.800.17	(1,915.50)	(1,915.61) 2,800.18	(1,915.58)	(1,915.53)	(1,915.60)	(1,915.51) 2.800.17	(1,915.38) 2,800.17	(1,915.47) 2,800.17	(22,986.40)
AMORT: ACQUISITION PREMIUM	2,740.25	,	,		2,800.17	,	2,800.17	2,800.17	2,800.17		,	,	33,542.13
AMORT EXP - DEFERRED CHARGES	257.31	257.33	257.31	257.33	257.31	257.32	257.31	257.32	257.31	257.31	257.31	257.32	3,087.79
GAIN FROM FORGIVENESS SRF DEBT NH BET TAX	-	-	-	(119.19)	(119.19)	(119.19)	(119.19)	(119.19)	(119.19)	(119.19)	(119.19)	(119.19)	(1,072.71)
	-	-	-	-	-	-	-	-	-	-	-	28,405.91	28,405.91
LOCAL PROPERTY TAXES	13,208.16 1.967.23	13,208.16	13,208.17	13,208.16	18,566.17	15,887.18	15,887.16	15,887.16	15,887.18	15,886.83 (1.592.72)	15,940.51	14,883.67	181,658.51
INCOME TAXES	y	450.01	2,180.57	2,950.53	175.74	2,976.68	335.02	(3,916.10)	2,802.53	0	982.14	101,525.37	110,837.00
TOTAL OPERATING DEDUCTIONS	62,784.89	53,233.97	59,934.41	55,881.29	62,376.39	60,338.96	70,503.13	72,107.92	58,504.30	62,735.44	63,223.46	175,636.04	857,260.20
NET OPERATING INCOME	7,994.07	3,828.50	8,539.34	10,763.28	(1,570.26)	8,736.39	1,734.23	(9,668.86)	8,259.27	(3,511.37)	3,532.39	(104,338.52)	(65,701.54)
INTEREST EXPENSE	(279.57)	(279.57)	(279.57)	(279.57)	(279.06)	(278.55)	(278.04)	(277.52)	(277.01)	(276.49)	(275.98)	(275.46)	(3,336.39)
AMORTIZATION OF DEBT EXPENSE	-	-	-	-	(55.95)	(62.18)	(62.70)	(62.35)	(62.35)	(62.35)	(62.35)	(62.33)	(492.56)
INTERCOMPANY INTEREST	(5,200.42)	(5,147.14)	(5,235.77)	(5,403.21)	(425.49)	(3,245.34)	(3,298.83)	(3,251.11)	(3,234.69)	(3,204.00)	(3,371.01)	(3,353.25)	(44,370.26)
TOTAL INTEREST EXPENSE, NET	(5,479.99)	(5,426.71)	(5,515.34)	(5,682.78)	(760.50)	(3,586.07)	(3,639.57)	(3,590.98)	(3,574.05)	(3,542.84)	(3,709.34)	(3,691.04)	(44,862.82)
NET INCOME (OR LOSS)	2,514.08	(1,598.21)	3,024.00	5,080.50	(2,330.76)	5,150.32	(1,905.34)	(13,259.84)	4,685.22	(7,054.21)	(176.95)	(108,029.56)	(113,900.75)

PITTSFIELD AQUEDUCT COMPANY THIRTEEN MONTH BALANCE SHEET

	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	#REF!
ASSETS														
LAND	60,333.19	60,333.19	60,333.19	60,333.19	60,333.19	60,333.19	60,333.19	60,333.19	60,333.19	60,333.19	60,333.19	60,333.19	60,333.19	60,333.19
STRUCTURES EQUIPMENT	1,492,523.95 133,958.03	1,492,523.95 133,958.03	1,492,523.95 133,958.03	1,492,523.95	1,492,523.95	1,492,523.95 133,958.03	1,492,523.95 133,958.03	1,492,523.95 133,958.03	1,492,523.95	1,492,523.95	1,492,523.95 134,908.33	1,492,523.95 134,908.33	1,492,523.95	1,492,523.95
TRANSMISSION & DISTRIBUTION	2,772,115.52	2,772,115.52	2,777,659.00	133,958.03 2,778,447.07	133,958.03 2,778,447.07	2,780,587.32	2,780,680.18	2,784,434.13	133,958.03 2,784,483.52	134,908.33 2,784,557.02	2,786,993.68	2,787,362.72	130,169.56 2,786,037.30	133,885.91 2,781,070.77
MISCELLANEOUS EQUIPMENT	120,254.36	120,254.36	120,254.36	120,254.36	120,254.36	120,254.36	119,818.30	119,818.30	119,818.30	109,773.86	109,773.86	109,773.86	109,773.86	116,928.96
INTANGIBLE PLANT	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65
TOTAL PLANT IN SERVICE	4,654,735.70	4,654,735.70	4,660,279.18	4,661,067.25	4,661,067.25	4,663,207.50	4,662,864.30	4,666,618.25	4,666,667.64	4,657,647.00	4,660,083.66	4,660,452.70	4,654,388.51	4,660,293.43
ACCUMULATED DEPRECIATION	1,389,966.34	1,398,458.95	1,406,352.70	1,414,572.16	1,423,068.69	1,431,568.54	1,439,633.34	1,447,722.07	1,455,900.40	1,453,928.85	1,461,388.27	1,469,816.57	1,472,217.26	1,435,738.01
NET PLANT IN SERVICE	3,264,769.36	3,256,276.75	3,253,926.48	3,246,495.09	3,237,998.56	3,231,638.96	3,223,230.96	3,218,896.18	3,210,767.24	3,203,718.15	3,198,695.39	3,190,636.13	3,182,171.25	3,224,555.42
CWIP:CONTRACTOR CLEARING	827.50	827.50	827.50	827.50	827.50	827.50	827.50	827.50	827.50	1,860.70	5,673.70	5,673.70	6,707.50	2,104.85
TOTAL PLANT	3,265,596.86	3,257,104.25	3,254,753.98	3,247,322.59	3,238,826.06	3,232,466.46	3,224,058.46	3,219,723.68	3,211,594.74	3,205,578.85	3,204,369.09	3,196,309.83	3,188,878.75	3,226,660.28
CURRENT ASSETS														
ACCOUNTS RECEIVABLE, NET	46,208.41	18,308.29	17,379.77	47,762.30	17,365.11	17,131.20	23,676.68	10,488.97	9,223.63	44,638.56	15,079.18	47,643.74	41,108.16	27,385.69
PREPAID EXPENSES AND OTHER	37,225.73	27,519.38	15,627.61	3,720.93	3,569.23	4,260.20	46,280.68	31,709.82	17,639.62	3,225.42	3,059.06	58,955.67	42,757.32	22,734.67
A/R: UNBILLED WATER REVENUE	76,493.00	83,326.00	76,050.00	72,633.00	77,196.00 98,130.34	75,085.00	75,031.00	82,965.00	79,300.00	75,058.00	71,660.00	70,221.00	79,549.00	76,505.15 126,625,51
TOTAL CURRENT ASSETS	159,927.14	129,153.67	109,057.38	124,116.23	98,130.34	96,476.40	144,988.36	125,163.79	106,163.25	122,921.98	89,798.24	176,820.41	163,414.48	126,625.51
OTHER ASSETS														
UNAMORTIZED DEBT EXPENSE	20,207.67	20,207.67	20,207.67	20,207.67	21,803.67	22,389.72	22,327.54	22,264.84	22,202.49	22,140.14	22,077.79	22,015.44	21,953.11	21,538.88
DEFERRED CHARGES ACQUISITION PREMIUM - MARA	20,306.66 1 254 116 97	20,049.35 1 251 376 72	19,792.02 1 248 576 55	19,534.71 1 245 776 38	19,277.38 1 242 976 21	19,020.07 1.240.176.04	18,762.75 1 237 375 86	18,505.44 1.234.575.69	18,248.12 1 231 775 52	17,990.81 1 228 975 35	17,733.50 1 226 175 18	17,476.19 1 223 375 01	17,218.87 1 220 574 84	18,762.76 1.237.371.26
TOTAL OTHER ASSETS	1,294,631.30	1,291,633.74	1,288,576.24	1,285,518.76	1,284,057.26	1,281,585.83	1,278,466.15	1,275,345.97	1,272,226.13	1,269,106.30	1,265,986.47	1,262,866.64	1,259,746.82	1,277,672.89
TOTAL ASSETS	4,720,155.30	4,677,891.66	4,652,387.60	4,656,957.58	4,621,013.66	4,610,528.69	4,647,512.97	4,620,233.44	4,589,984.12	4,597,607.13	4,560,153.80	4,635,996.88	4,612,040.05	4,630,958.68
EQUITY AND LIABILITIES														
COMMON STOCK	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
ADDITIONAL PAID IN CAPITAL	2,064,823.84	2,064,823.84	2,064,823.84	1,935,317.84	1,935,317.84	1,935,317.84	1,935,317.84	1,935,317.84	1,935,317.84	1,935,317.84	1,935,317.84	1,935,317.84	1,935,317.84	1,965,203.84
RETAINED EARNINGS BEG - PAC	-,	(23,553.03)	(23,553.03)	(23,553.03)	(23,553.03)	(23,553.03)	(23,553.03)	(23,553.03)	(23,553.03)	(23,553.03)	(23,553.03)	(23,553.03)	(23,553.03)	(21,741.26)
NET PROFIT (OR LOSS)	(23,553.03)	2,514.08	915.87	3,939.87	9,020.37	6,689.61	11,839.93	9,934.59	(3,325.25)	1,359.97	(5,694.24)	(5,871.19)	(113,900.75)	(8,163.86)
TOTAL EQUITY	2,041,370.81	2,043,884.89	2,042,286.68	1,915,804.68	1,920,885.18	1,918,554.42	1,923,704.74	1,921,799.40	1,908,539.56	1,913,224.78	1,906,170.57	1,905,993.62	1,797,964.06	1,935,398.72
LTD:SRF Catamount Road	169,800.69	169,403.69	169,204.69	169,004.69	125,821.69	125,618.69	125,406.69	125,202.69	124,997.69	124,791.69	124,585.69	124,378.69	124,170.69	138,645.23
FORGIVABLE DEBT: CATAMOUNT ROAD	-	-	-	-	41,240.53	41,121.34	41,002.15	40,882.96	40,763.77	40,644.58	40,525.39	40,406.20	40,287.01	28,221.07
TOTAL LONG TERM DEBT	169,800.69	169,403.69	169,204.69	169,004.69	167,062.22	166,740.03	166,408.84	166,085.65	165,761.46	165,436.27	165,111.08	164,784.89	164,457.70	166,866.30
CURRENT LIABILITIES														
INTERCO ADV-PCP PROM NOTE 5/18	776,850.00	776,850.00	776,850.00	776,850.00	776,850.00	-	-	-	-	-	-	-	-	298,788.46
NOTE PAYABLE - PCP 2018 1.1M LOAN	-	- 1,759.00	- 1,958.00	-	-	1,186,000.00 2,369.00	1,184,033.61	1,182,061.98	1,180,085.09	1,178,102.93	1,176,115.48	1,174,122.73	1,172,124.67	725,588.19
CURRENT PORTION LTD: SRF CATAMOUNT ROAD FORGIVABLE DEBT: STD CATAMOUNT ROAD	1,362.00	1,759.00	1,958.00	2,158.00	2,359.00 1,430.28	1,430.28	2,387.00 1,430.28	2,396.00 1,430.28	2,406.00 1,430.28	2,416.00 1,430.28	2,425.00 1,430.28	2,434.00 1,430.28	2,443.00 1,430.28	2,220.92 990.19
INTERCO DIV PAY/REC PAC/PCP	410,666.98	334,684.54	278,961.03	378,696.01	308,218.02	(157,412.39)	(116,875.14)	(185,912.61)	(241,545.16)	(253,874.94)	(338,651.92)	(268,502.39)	72,615.09	17,005.16
INTERCO PAY/REC: PAC/PWW	-	33,919.26	66,197.40	98,087.59	122,599.30	155,201.71	184,426.54	227,382.64	262,456.67	287,435.24	321,691.08	348,213.29	-	162,123.90
INTERCO LOAN PWW/PAC: RSF	12,954.74	12,954.74	12,954.74	12,954.74	12,954.74	12,954.74	12,954.74	12,954.74	12,954.74	12,954.74	12,954.74	12,954.74	12,954.74	12,954.74
INTERCO PAY/REC: PAC/PEU	-	-	-	-	-	(58.56)	41.42	1,266.61	1,603.19	5,198.15	5,210.06	10,227.73	-	1,806.82
HARDSHIP CASES: CREDITS	(48.97) 7.939.93	(48.97) 7.140.97	(48.97) 8.596.02	(48.97) 9 938 43	- 17 058 02	35.068.06	1.235.15	- 4,918.54	12.357.61	3,264.60	27.593.86	- 6.149.80	4.530.48	(15.07)
ACCOUNTS PAYABLE & ACCR EXP TOTAL CURRENT LIABILITIES	1,209,724.68	1,167,259.54	1,145,468.22	1,278,635.80	1,241,469.36	1,235,552.84	1,269,633.60	1,246,498.18	1,231,748.42	1,236,927.00	1,208,768.58	1,287,030.18	1,266,098.26	<u>11,214.73</u> 1,232,678.05
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OTHER DEFERRED CREDITS														
CONTRIBUTIONS IN AID OF CONST DESERVE FOR AMORT OF CLACERAC	1,148,636.41	1,148,636.41	1,148,636.41 (455,652.17)	1,148,636.41	1,148,636.41	1,148,636.41	1,148,636.41	1,148,636.41 (465,229.97)	1,148,636.41	1,148,636.41	1,148,636.41	1,148,636.41	1,148,636.41	1,148,636.41
RESERVE FOR AMORT OF CIAC:PAC DEFERRED INCOME TAXES	(451,821.06) 401,226.77	(453,736.64) 401,226.77	(455,652.17) 401,226.77	(457,567.77) 401,226.77	(459,483.28) 401,226.77	(461,398.78) 401,226.77	(463,314.39) 401,226.77	(465,229.97) 401.226.77	(467,145.50) 401.226.77	(469,061.10) 401,226.77	(470,976.61) 401,226.77	(472,891.99) 401,226.77	(474,807.46) 508,474.08	(463,314.36) 409,476.56
	201,217.00	201,217.00	201,217.00	201,217.00	201,217.00	201,217.00	201,217.00	201,217.00	201,217.00	201,217.00	201,217.00	201,217.00	201,217.00	201,217.00
TOTAL DEFERRED CREDITS	1,299,259.12	1,297,343.54	1,295,428.01	1,293,512.41	1,291,596.90	1,289,681.40	1,287,765.79	1,285,850.21	1,283,934.68	1,282,019.08	1,280,103.57	1,278,188.19	1,383,520.03	1,296,015.61
TOTAL LIABILITIES AND EQUITY	4,720,155.30	4,677,891.66	4,652,387.60	4,656,957.58	4,621,013.66	4,610,528.69	4,647,512.97	4,620,233.44	4,589,984.12	4,597,607.13	4,560,153.80	4,635,996.88	4,612,040.05	4,630,958.68
	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PITTSFIELD AQUEDUCT Profit and Loss Statement January - December 2019

CBFRR REVENUES 12,213.25	,315.17 ,559.00 ,663.00
MISC OPERATING REVENUE 121.00 20.00 202.00 310.00 135.00 315.00 112.00 201.00 478.00 218.00 227.00 TOTAL REVENUES 57,992.53 61,734.25 65,899.29 66,550.66 60,943.22 64,964.80 63,677.71 71,902.85 68,345.58 61,312.47 64,785.38 66,428.43 77 PRODUCTION EXPENSES 13,605.80 11,570.15 9,928.72 8,321.49 13,542.40 7,967.34 10,385.27 9,010.13 8,525.11 11,177.68 14,259.56 13,022.47 13 TRANSMISSION AND DISTRIB EXP 3,114.49 4,478.79 2,963.20 1,474.65 3,865.64 12,563.12 7,407.61 4,093.93 1,255.10 6,245.54 11,451.85 2,265.30 6 CUSTOMER ACCT & COLLECTION EXP 855.14 642.23 1,092.36 571.11 1,124.63 1,371.54 3,029.08 1,075.01 943.65 1,184.27 1,857.25 1,847.97 1 ADMINISTRATIVE & GENERAL EXP 1,443.43 1,748.01 1,492.44 <td< td=""><td></td></td<>	
TOTAL REVENUES 57,992.53 61,734.25 65,899.29 66,550.66 60,943.22 64,964.80 63,677.71 71,902.85 68,345.58 61,312.47 64,785.38 66,428.43 77 PRODUCTION EXPENSES 13,605.80 11,570.15 9,928.72 8,321.49 13,542.40 7,967.34 10,385.27 9,010.13 8,525.11 11,177.68 14,259.56 13,022.47 13 TRANSMISSION AND DISTRIB EXP 3,114.49 4,478.79 2,963.20 1,474.65 3,865.64 12,563.12 7,407.61 4,093.93 1,255.10 6,245.54 11,451.85 2,265.30 6 CUSTOMER ACCT & COLLECTION EXP 855.14 642.23 1,092.36 571.11 1,124.63 1,371.54 3,029.08 1,075.01 943.65 1,184.27 1,857.25 1,847.97 1 ADMINISTRATIVE & GENERAL EXP 1,443.43 1,449.48 1,492.44 1,500.57 1,496.68 10,461.86 1,324.99 1,413.74 1,474.97 1,474.62 2,863.00 17 INTERCOMMOM TFEE: PWW 12,366.00 10,361.	663.00
PRODUCTION EXPENSES 13,605.80 11,570.15 9,928.72 8,321.49 13,542.40 7,967.34 10,385.27 9,010.13 8,525.11 11,177.68 14,259.56 13,022.47<	
TRANSMISSION AND DISTRIB EXP 3,114.49 4,478.79 2,963.20 1,474.65 3,865.64 12,563.12 7,407.61 4,093.93 1,255.10 6,245.54 11,451.85 2,265.30 66 CUSTOMER ACCT & COLLECTION EXP 855.14 642.23 1,092.36 571.11 1,124.63 1,371.54 3,029.08 1,075.01 943.65 1,184.27 1,857.25 1,847.97 1 ADMINISTRATIVE & GENERAL EXP 1,443.43 1,748.01 1,494.48 1,492.44 1,500.57 1,496.68 10,461.86 1,324.99 1,413.74 1,474.97 1,475.29 1,842.02 1 INTERCO MGMT FEE: PWW 12,366.00 10,361.00 22,921.00 13,798.00 13,746.00 12,941.00 13,615.00 13,145.00 15,510.00 15,713.00 15,863.00 17 INTERCOMPANY MGMT FEE: PWW 12,366.00 10,361.00 22,921.00 13,798.00 13,746.00 12,941.00 13,612.00 13,512.00 13,510.00 15,713.00 15,863.00 17.00 142.00 367.00 17 142.00 367.00	,537.17
TRANSMISSION AND DISTRIB EXP 3,114.49 4,478.79 2,963.20 1,474.65 3,865.64 12,563.12 7,407.61 4,093.93 1,255.10 6,245.54 11,451.85 2,265.30 66 CUSTOMER ACCT & COLLECTION EXP 855.14 642.23 1,092.36 571.11 1,124.63 1,371.54 3,029.08 1,075.01 943.65 1,184.27 1,857.25 1,847.97 1 ADMINISTRATIVE & GENERAL EXP 1,443.43 1,748.01 1,494.48 1,492.44 1,500.57 1,496.68 10,461.86 1,324.99 1,413.74 1,474.97 1,475.29 1,842.02 1 INTERCO MGMT FEE: PWW 12,366.00 10,361.00 22,921.00 13,798.00 13,746.00 12,941.00 13,615.00 13,145.00 15,510.00 15,713.00 15,863.00 17 INTERCOMPANY MGMT FEE: PWW 12,366.00 10,361.00 22,921.00 13,798.00 13,746.00 12,941.00 13,612.00 13,512.00 13,510.00 15,713.00 15,863.00 17.00 142.00 367.00 17 142.00 367.00	316.12
CUSTOMER ACCT & COLLECTION EXP 855.14 642.23 1,092.36 571.11 1,124.63 1,371.54 3,029.08 1,075.01 943.65 1,184.27 1,857.25 1,847.97 1 ADMINISTRATIVE & GENERAL EXP 1,443.43 1,748.01 1,494.48 1,492.44 1,500.57 1,496.68 10,461.86 1,321.99 1,413.74 1,474.97 1,475.29 1,462.62 2 INTERCOMGMT FEE: PWW 12,366.00 10,361.00 22,921.00 13,798.00 13,746.00 12,941.00 13,635.00 13,145.00 13,145.00 13,145.00 15,713.00 15,713.00 15,863.00 17 INTERCOMPANY MGMT FEE: PCP 379.00 419.00 500.00 406.00 398.00 370.00 276.00 332.00 317.00 412.00 367.00 TOTAL OPERATING EXPENSES 31,763.86 29,219.18 38,899.76 26,063.69 34,177.24 36,709.68 45,194.82 28,991.06 24,489.60 33,909.46 45,168.95 34,828.36 40 DEPRECIATION EXPENSE: PAC 8,468.02 8,467.7	179.22
ADMINISTRATIVE & GENERAL EXP 1,443.43 1,748.01 1,494.48 1,492.44 1,500.57 1,496.68 10,461.86 1,324.99 1,413.74 1,474.97 1,475.29 1,462.62 2 INTERCO MGMT FEE: PWW 12,366.00 10,361.00 22,921.00 13,798.00 13,746.00 12,941.00 13,635.00 13,145.00 12,020.00 13,510.00 15,713.00 15,863.00 17 INTERCOMPANY MGMT FEE: PCP 379.00 419.00 500.00 406.00 398.00 370.00 276.00 342.00 332.00 317.00 412.00 367.00 TOTAL OPERATING EXPENSES 31,763.86 29,219.18 38,899.76 26,063.69 34,177.24 36,709.68 45,194.82 28,991.06 24,489.60 33,909.46 45,168.95 34,828.36 40 DEPRECIATION EXPENSE: PAC 8,468.02 8,467.71 8,474.61 8,473.60 8,474.06 8,468.00 8,466.34 8,494.65 8,496.77 8,516.95 8,405.47 8,365.98 10	594.24
INTERCO MGMT FEE: PWW 12,366.00 10,361.00 22,921.00 13,798.00 13,746.00 12,941.00 13,635.00 13,145.00 12,020.00 13,510.00 15,713.00 15,863.00 17 INTERCOMPANY MGMT FEE: PCP 379.00 419.00 500.00 406.00 398.00 370.00 276.00 342.00 332.00 317.00 412.00 367.00 TOTAL OPERATING EXPENSES 31,763.86 29,219.18 38,899.76 26,063.69 34,177.24 36,709.68 45,194.82 28,991.06 24,489.60 33,909.46 45,168.95 34,828.36 40 DEPRECIATION EXPENSE: PAC 8,468.02 8,467.71 8,474.61 8,473.60 8,474.06 8,468.00 8,466.34 8,494.65 8,496.77 8,516.95 8,405.47 8,365.98 10	789.08
INTERCOMPANY MGMT FEE: PCP 379.00 419.00 500.00 406.00 398.00 370.00 276.00 342.00 332.00 317.00 412.00 367.00 TOTAL OPERATING EXPENSES 31,763.86 29,219.18 38,899.76 26,063.69 34,177.24 36,709.68 45,194.82 28,991.06 24,489.60 33,909.46 45,168.95 34,828.36 40 DEPRECIATION EXPENSE: PAC 8,468.02 8,467.71 8,474.61 8,473.60 8,474.06 8,466.34 8,494.65 8,496.77 8,516.95 8,405.47 8,365.98 10	019.00
TOTAL OPERATING EXPENSES 31,763.86 29,219.18 38,899.76 26,063.69 34,177.24 36,709.68 45,194.82 28,991.06 24,489.60 33,909.46 45,168.95 34,828.36 40 DEPRECIATION EXPENSE: PAC 8,468.02 8,467.71 8,474.61 8,473.60 8,474.06 8,466.03 8,494.65 8,496.77 8,516.95 8,405.47 8,365.98 10	518.00
	415.66
	,572.16
	,985.08)
	,349.03
	,086.38
GAIN FROM FORGIVENESS SRF DEBT (119.19)	,430.28)
NH BET TAX 1,258.00	,258.00
	,691.99
INCOME TAXES 25.82 1,746.68 236.89 3,893.08 215.04 604.63 (2,057.45) 4,569.23 4,842.20 536.43 (1,532.85) 449.30 1	,529.00
TOTAL OPERATING DEDUCTIONS 57,108.61 56,352.48 64,530.05 55,349.26 59,765.93 62,683.14 68,504.53 58,955.83 54,711.39 59,365.06 68,443.80 60,716.78 72	,486.86
NET OPERATING INCOME 883.92 5,381.77 1,369.24 11,201.40 1,177.29 2,281.66 (4,826.82) 12,947.02 13,634.19 1,947.41 (3,658.42) 5,711.65 4	,050.31
INTEREST EXPENSE (274.94) (274.42) (273.90) (273.38) (272.85) (272.33) (271.80) (271.27) (270.74) (270.21) (269.68) (269.15) (,264.67)
AMORTIZATION OF DEBT EXPENSE (62.33)	(747.96)
INTERCOMPANY INTEREST (3.277.86) (3.247.85) (3.268.34) (3.209.20) (3.131.21) (3.187.22) (3.246.49) (3.179.50) (3.132.30) (3.038.68) (3.004.62) (3.049.73) (3.131.21) (3.187.22) (3.246.49) (3.179.50) (3.132.30) (3.038.68) (3.004.62) (3.049.73) (3.131.21) (3.187.22) (3.246.49) (3.179.50) (3.132.30) (3.038.68) (3.004.62) (3.049.73) (3.187.22) (3.246.49) (3.179.50) (3.132.30) (3.038.68) (3.004.62) (3.049.73) (3.187.22) (3.246.49) (3.179.50) (3.132.30) (3.132.30) (3.038.68) (3.004.62) (3.049.73) (3.187.22) (3.187.22) (3.246.49) (3.179.50) (3.132.30)	,973.00)
	,720.96)
NET INCOME (OR LOSS) (2,731.21) 1,797.17 (2,235.33) 7,656.49 (2,289.10) (1,240.22) (8,407.44) 9,433.92 10,168.82 (1,423.81) (6,995.05) 2,330.44	

PITTSFIELD AQUEDUCT COMPANY THIRTEEN MONTH BALANCE SHEET

	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	13 Month
ASSETS						-			~	-				Average
LAND	60,333.19	60,333.19	60,333.19	60,333.19	60,333.19	60,333.19	60,333.19	60,333.19	60,333.19	60,333.19	60,333.19	60,333.19	60,333.19	60,333.19
STRUCTURES	1,492,523.95	1,492,523.95	1,492,523.95	1,492,523.95	1,492,523.95	1,492,523.95	1,492,523.95	1,492,523.95	1,492,523.95	1,492,523.95	1,492,523.95	1,492,523.95	1,492,523.95	1,492,523.95
EQUIPMENT	130,169.56	130,169.56	130,169.56	130,169.56	130,169.56	130,169.56	130,169.56	131,490.46	131,490.46	131,490.46	131,490.46	131,490.46	131,490.46	130,719.94
TRANSMISSION & DISTRIBUTION	2,786,037.30	2,786,111.89	2,786,111.89	2,790,897.89	2,790,897.89	2,790,991.71	2,790,195.54	2,790,367.01	2,790,463.89	2,790,348.47	2,790,943.44	2,795,808.32	2,795,104.49	2,789,931.27
MISCELLANEOUS EQUIPMENT	109,773.86	109,773.86	109,773.86	109,773.86	109,773.86	109,773.86	109,773.86	109,773.86	115,098.03	115,233.10	115,233.10	115,233.10	113,039.64	111,582.35
INTANGIBLE PLANT	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65
TOTAL PLANT IN SERVICE	4,654,388.51	4,654,463.10	4,654,463.10	4,659,249.10	4,659,249.10	4,659,342.92	4,658,546.75	4,660,039.12	4,665,460.17	4,665,479.82	4,666,074.79	4,670,939.67	4,668,042.38	4,660,641.35
ACCUMULATED DEPRECIATION	1,472,217.26	1,480,676.99	1,489,144.70	1,496,765.02	1,505,238.62	1,513,712.68	1,521,384.51	1,529,842.56	1,538,337.21	1,546,635.68	1,555,006.84	1,563,379.16	1,568,524.89	1,517,695.10
NET PLANT IN SERVICE	3,182,171.25	3,173,786.11	3,165,318.40	3,162,484.08	3,154,010.48	3,145,630.24	3,137,162.24	3,130,196.56	3,127,122.96	3,118,844.14	3,111,067.95	3,107,560.51	3,099,517.49	3,142,946.24
CWIP:CONTRACTOR CLEARING	6,707.50	6,707.50	6,707.50	6,707.50	6,707.50	6,707.50	6,707.50	12,031.67	6,842.57	6,707.50	6,176.50	6,176.50	6,176.50	7,073.94
TOTAL PLANT	3,188,878.75	3,180,493.61	3,172,025.90	3,169,191.58	3,160,717.98	3,152,337.74	3,143,869.74	3,142,228.23	3,133,965.53	3,125,551.64	3,117,244.45	3,113,737.01	3,105,693.99	3,150,020.18
CURRENT ASSETS														
ACCOUNTS RECEIVABLE, NET	41,108.16	19,658.82	48,066.73	40,742.86	39,362.86	16,748.64	46,025.06	25,162.40	49,243.72	40,626.13	18,847.91	50,983.40	25,308.33	36,381.39
PREPAID EXPENSES AND OTHER	42,757.32	29,104.98	14,959.13	1,963.35	2,611.69	59,047.69	45,018.41	30,962.76	17,096.77	2,869.48	2,473.41	55,932.51	41,124.00	25,399.79
A/R: UNBILLED WATER REVENUE TOTAL CURRENT ASSETS	79,549.00 163,414.48	73,321.00 122,084.80	67,899.00 130,924.86	71,096.00 113,802.21	78,080.00 120,054.55	77,386.00	73,158.00 164,201.47	75,852.00 131,977.16	75,893.00 142,233.49	78,789.00 122,284.61	75,287.00 96,608.32	70,637.00	76,432.00 142,864.33	74,745.58
	163,414.48	122,084.80	130,924.86	113,802.21	120,054.55	153,182.33	164,201.47	131,977.16	142,233.49	122,284.61	96,608.32	177,552.91	142,864.33	136,526.77
OTHER ASSETS														
UNAMORTIZED DEBT EXPENSE	21,953.11	21,890.78	21,828.45	21,766.12	21,703.79	21,641.46	21,579.13	21,516.80	21,454.47	21,392.14	21,329.81	21,267.48	21,205.15	21,610.30
DEFERRED CHARGES	17,218.87	16,961.57 1.217.774.67	16,704.26 1.214.906.58	16,446.95 1.212.038.51	16,189.64 1.209.170.44	15,933.65	15,676.33	6,447.69	6,190.38	5,933.08 1.194.830.04	5,675.77	5,418.47 1.189.093.90	5,161.15 1.186.225.81	12,066.39
ACQUISITION PREMIUM - MARA TOTAL OTHER ASSETS	1,220,574.84 1,259,746.82	1,217,774.67	1,214,906.58	1,212,038.51	1,209,170.44	1,206,302.36 1,243,877.47	1,203,434.28 1,240,689.74	1,200,566.20 1,228,530.69	1,197,698.13 1,225,342.98	1,194,830.04	1,191,961.97 1,218,967.55	1,189,093.90	1,186,225.81	1,204,862.66 1,238,539.34
TOTAL ASSETS	4,612,040.05	4,559,205.43	4,556,390.05	4,533,245.37	4,527,836.40	4,549,397.54	4,548,760.95	4,502,736.08	4,501,542.00	4,469,991.51	4,432,820.32	4,507,069.77	4,461,150.43	4,525,086.29
I O I ME ASSEITS	4,012,040.05	-,557,2055	4,550,570.05	4,555,245.57	4,527,050.40	4,049,097.04	4,546,766.75	4,302,750.00	4,501,542.00	4,407,771.51	4,452,620.52	4,507,005.17	4,401,130.43	4,525,000.25
EQUITY AND LIABILITIES														
COMMON STOCK	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
ADDITIONAL PAID IN CAPITAL	1,935,317.84	1,935,317.84	1,899,595.84	1,899,595.84	1,899,595.84	1,899,595.84	1,899,595.84	1,899,595.84	1,899,595.84	1,899,595.84	1,899,595.84	1,899,595.84	1,899,595.84	1,905,549.51
RETAINED EARNINGS BEG - PAC	(23,553.03)	(137,453.78)	(137,453.78)	(137,453.78)	(137,453.78)	(137,453.78)	(137,453.78)	(137,453.78)	(137,453.78)	(137,453.78)	(137,453.78)	(137,453.78)	(137,453.78)	(127,962.05)
NET PROFIT (OR LOSS)	(113,900.75)	(2,731.21)	(934.04)	(3,169.37)	4,487.12	2,198.02	957.80	(7,449.64)	1,984.28	12,153.10	10,729.29	3,734.24	6,064.68	(7,661.76)
TOTAL EQUITY	1,797,964.06	1,795,232.85	1,761,308.02	1,759,072.69	1,766,729.18	1,764,440.08	1,763,199.86	1,754,792.42	1,764,226.34	1,774,395.16	1,772,971.35	1,765,976.30	1,768,306.74	1,770,025.69
NOTE PAYABLE - PCP 2018 1.1M LOAN	1,147,728.22	1,145,659.78	1,143,585.80	1,141,506.31	1,139,421.27	1,137,330.67	1,135,234.49	1,133,132.73	1,131,025.36	1,128,912.37	1,126,793.74	1,124,669.47	1,122,539.53	1,136,250.02
LTD:SRF Catamount Road	124,170.69	123,961.69	123,752.69	123,542.69	123,331.69	123,119.69	122,906.69	122,693.69	122,479.69	122,264.69	122,048.69	121,831.69	121,614.69	123,008.69
FORGIVABLE DEBT: CATAMOUNT ROAD	40,287.01	40,167.82	40,048.63	39,929.44	39,810.25	39,691.06	39,571.87	39,452.68	39,333.49	39,214.30	39,095.11	38,975.92	38,856.73	39,631.47
TOTAL LONG TERM DEBT	1,312,185.92	1,309,789.29	1,307,387.12	1,304,978.44	1,302,563.21	1,300,141.42	1,297,713.05	1,295,279.10	1,292,838.54	1,290,391.36	1,287,937.54	1,285,477.08	1,283,010.95	1,298,890.17
CURRENT LIABILITIES														
ST NOTE PAYABLE - PCP 2018 1.1M LOAN	24,396.45	24,461.50	24,526.75	24,592.15	24,657.73	24,723.48	24,789.41	24,855.51	24,921.79	24,988.25	25,054.89	25,121.70	25,188.69	24,757.47
CURRENT PORTION LTD: SRF CATAMOUNT ROAD	2,443.00	2.453.00	2.462.00	2.471.00	2,480.00	2.490.00	2.500.00	2.509.00	2.518.00	2.527.00	2.537.00	2.547.00	2.556.00	2.494.75
FORGIVABLE DEBT: STD CATAMOUNT ROAD	1,430.28	1,430.28	1,430.28	1,430.28	1,430.28	1,430.28	1,430.28	1,430.28	1,430.28	1,430.28	1,430.28	1,430.28	1,430.28	1,430.28
INTERCO DIV PAY/REC PAC/PCP	72,615.09	(2,878.21)	5,839.26	(50,214.08)	(100,124.60)	(160,808.66)	(105,101.02)	(173,857.37)	(203,044.26)	(260,914.56)	(339,032.03)	(368,431.58)	1,719.17	(140,496.00)
INTERCO PAY/REC: PAC/PWS	-	-	-			(63.08)	(63.24)	(63.40)	(63.55)	(63.70)	(63.83)	(63.95)	-	(37.06)
INTERCO PAY/REC: PAC/PWW	-	25,931.34	48,421.51	92,457.95	114,970.52	141,260.86	168,609.48	199,694.20	226,148.02	249,157.47	275,415.72	311,403.84	-	154,455.91
INTERCO LOAN PWW/PAC: RSF	12,954.74	12,954.74	12,954.74	12,954.74	12,954.74	12,954.74	12,954.74	12,954.74	12,954.74	12,954.74	12,954.74	12,954.74	12,954.74	12,954.74
INTERCO PAY/REC: PAC/PEU	-	334.97	335.67	336.51	337.35	338.19	1,340.29	4,101.58	5,712.81	5,486.68	7,744.40	14,067.82		3,344.69
ACCOUNTS PAYABLE & ACCR EXP TOTAL CURRENT LIABILITIES	4,530.48 118,370.04	7,891.10 72,578.72	12,035.52 108,005.73	7,391.97 91,420.52	25,979.66 82,685.68	88,547.28 110,873.09	9,360.62 115,820.56	10,928.00 82,552.54	5,702.66 76,280.49	3,357.65 38,923.81	21,504.47 7,545.64	94,136.12 93,165.97	3,580.92 47,429.80	24,280.46 83,185.23
		,	,	,	-,		,				.,		,	
OTHER DEFERRED CREDITS														
CONTRIBUTIONS IN AID OF CONST	1,148,636.41	1,148,636.41	1,148,636.41	1,148,636.41	1,148,636.41	1,148,636.41	1,148,636.41	1,148,636.41	1,148,636.41	1,148,636.41	1,148,636.41	1,148,636.41	1,148,636.41	1,148,636.41
RESERVE FOR AMORT OF CIAC:PAC	(474,807.46)	(476,722.92)	(478,638.31)	(480,553.77)	(482,469.16)	(484,384.54)	(486,300.01)	(488,215.47)	(490,130.86)	(492,046.31)	(493,961.70)	(495,877.07)	(497,792.54)	(485,342.30)
DEFERRED INCOME TAXES	508,474.08	508,474.08	508,474.08	508,474.08	508,474.08	508,474.08	508,474.08	508,474.08	508,474.08	508,474.08	508,474.08	508,474.08	510,342.07	508,474.08
TOTAL DECEDDED CDEDUTC	201,217.00	201,217.00	201,217.00	201,217.00	201,217.00	201,217.00	201,217.00	201,217.00	201,217.00	201,217.00	201,217.00	201,217.00	201,217.00	201,217.00
TOTAL DEFERRED CREDITS	1,383,520.03	1,381,604.57	1,379,689.18	1,377,773.72	1,375,858.33	1,373,942.95	1,372,027.48	1,370,112.02	1,368,196.63	1,366,281.18	1,364,365.79	1,362,450.42	1,362,402.94	1,372,985.19
TOTAL LIABILITIES AND EQUITY	4,612,040.05	4,559,205.43	4,556,390.05	4,533,245.37	4,527,836.40	4,549,397.54	4,548,760.95	4,502,736.08	4,501,542.00	4,469,991.51	4,432,820.32	4,507,069.77	4,461,150.43	4,525,086.29
	-	-	-	-	-	-	-	-	-	-	-	-	-	-

1604.01(a)(2) Annual Reports to Stockholders and statistical supplements, if any, for the most recent 2 years.

This data does not exist for PAC.

1604.01(a)(3) Federal Income Tax Reconciliation for the test year

Pittsfield Aqueduct Company, Inc. Federal Income Tax Reconciliation For the Twelve Months Ended December 31, 2019

Provided pursuant to NHPUC Rule 1604.01(3)

Net income per books for the test year Addback provision for Federal and State income taxes	\$	7,324 13,529
Pretax Book Income before permanent items		20,853
Permanent Items: 50% meals & entertainment expenses		_
Amortization of Municipal Acquisition Regulatory Asset (Ma Disqualifying Dispositions (ISO's)	ARA	34,349 -
		34,349
Taxable Income		55,202
NHBPT		11,593
Federal Income Tax		-
Amortization of Investment Tax Credit		-
Total Income Taxes	\$	11,593
Note: The following are temporary differences (Schedule M-1 ite in Deferred Income Taxes:	ms) that are	e recorded
Accelerated depreciation/Amortization of CIAC		(2,129)
Book/Tax Difference on disposal of assets		-
Prior Year's Charitable Contributions		-
Prepaid Expenses		2
A/R Reserve		(715)
Deferred Debits		(4,829)
		(7,671)

1604.01(a)(4) Detailed NH and Fed Tax Factor Computations on the increment of revenue needed to produce a given increment of net operating income.

Computation of Detailed Tax Factor Pittsfield Aqueduct, Inc. December 31, 2019

Provided pursuant to NHPUC Rule 1604.01(4)

Taxable Income	100.00%
Less: NH Business Profits Tax	7.70%
Federal Taxable Income	92.30%
Federal Income Tax Rate	21.00%
Effective Federal Income Tax Rate	19.38%
Add: NH Business Profits Tax	7.70%
Effective Tax Rate	27.08%
Percent of Income Available if No Tax	100.00%
Effective Tax Rate	27.08%
Percent Used as a Divisor in Determining the Revenue Requirement	72.92%

1604.01(a)(5) Detailed Charitable Contributions charged in the test year above the line showing the donee, amount, and account charged. (contributions of \$50 or more)

This data does not exist for PAC.

1604.01(a)(6) List of Advertising charges in the test year above the line showing expenditures by media, subject mattewr, and account charged. (expenditures of \$50 or more)

This data does not exist for PAC.

1604.01(a)(7) Most Recent Cost of Service Study if not previously filed in an adjudicative proceeding.

Last COSS was filed in DW 08-052 and is attached.

Pittsfield Aqueduct Company, Inc. Pittsfield Division

> Report on Cost of Service Allocations and Rate Design

> > AUS Consultants

By

John R. Palko Principal

155 Gaither Drive, Suite A Mount Laurel, NJ 08054

May 2008

Pittsfield Aqueduct Company, Inc. Pittsfield Division Report on Cost of Service Allocations and Rate Design

Introduction

This report sets forth the procedures, findings, and results of a cost of service allocation and rate design study for the Pittsfield Division of Pittsfield Aqueduct Company, Inc. (PAC or the Company). As of the end of calendar year 2007, the Company provided water service to a total of 635 customers via its water system located in Pittsfield, New Hampshire.

This cost of service allocation and rate design study is based on the total pro forma revenue requirement for the twelve months ending December 31, 2007 as will be requested by the Company in its planned rate filing before the New Hampshire Public Utilities Commission.

Revenue Requirement

Every public utility must receive total revenues sufficient to ensure proper operation and maintenance, development and perpetuation of its system and facilities, and preservation of its financial integrity. Without adequate revenues, the public utility would not be able to provide safe and adequate service to its customers. The total revenue requirement of a public utility is synonymous with its total cost of service and represents the amount of monies which must be recovered from its customer base through a system of periodic rates and charges for utility service. Cost of service allocation and rate design studies for investor-owned water utilities reporting to a regulatory authority are often conducted in conjunction with the processing of a rate relief application at which time it is usually necessary to develop a pro forma revenue requirement. Such is the case in the present study which is based on the pro forma operations for the test year ended December 31, 2007, as developed by the management of the Company.

For the purpose of this study, the total pro forma revenue requirement, as developed by the Company for the test year ended December 31, 2007, may be summarized as follows:

Item	<u>Amount</u>
Operation and Maintenance Expense	\$396,029
Depreciation and Amortization	65,699
Taxes Other Than Income Tax	37,366
Net Operating Income	145,140
Income Taxes	17,205
Total Revenue Requirement	<u>\$661,439</u>

As subsequently discussed herein, this study results in the allocation of the \$661,439 revenue requirement to functional costs and rate elements. It is noted that some \$5,372 of the revenue requirement is projected to be obtained from other revenue or miscellaneous service revenue leaving a net revenue requirement of \$656,067 to be recovered from a schedule of rates and charges for water service. This is the revenue amount the Company is requesting in temporary rates to relieve its net operating losses.

Plant Investment

The Company maintains its plant investment accounts in accordance with the fixed capital reporting requirements of the New Hampshire Public Utilities Commission.

Under this system, the original cost and the depreciation expense for utility plant in service as of December 31, 2007 may be summarized as follows:

Plant in Service	Original Cost	Depreciation Expense
Source of Supply and Pumping	\$198,584	\$3,064
Water Treatment	948,654	22,684
Transmission and Distribution	2,458,491	44,587
General	81,192	2,789
Intangible	75,551	3,778
Total Utility Plant in Service	<u>\$3,762,472</u>	<u>\$76,902</u>

As subsequently discussed herein, the above original cost elements and depreciation expense elements are allocated to a group of functional costs. The results of these allocations then become an input into the allocation of the pro forma revenue requirement.

Cost of Service Allocation

The pro forma revenue requirement (or equivalently, the total cost of service) was allocated to three broad functional cost categories, namely Volume Cost, Customer Cost, and Direct Fire Cost. These allocations are set forth in detail on the accompanying Schedules P1 through P6.

The Volume Cost Component, in the study developed herein, encompasses all the volume related elements of the cost of service. That is, the Volume Cost Component includes both costs associated with serving customers under average load conditions and costs associated with meeting rate-of-use requirements in excess of average. Stated in another manner, volume costs comprise all costs other than customer costs or direct fire costs.

The Customer Cost Component includes those costs associated with connecting and serving customers irrespective of the volume of water used or the demand requirements imposed on the system. Customer costs generally comprise capital and operating costs related to services, meters, and customer installations and meter reading, billing, and collecting expenses. In the present study, a portion of the costs and expenses related to transmission and distribution mains and distribution reservoirs were also allocated to the Customer Cost Component.

The Direct Fire Cost Component includes those costs associated with the installation, operation, and maintenance of fire hydrants together with a portion of the costs and expenses related to transmission and distribution mains and distribution reservoirs.

The accompanying Schedule P1 sets forth the allocation of utility plant in service at December 31, 2007. The results of the utility plant allocation are used to allocate property insurance and property taxes.

The results of the utility plant allocation are also an input into the rate base allocation. The accompanying Schedule P2 sets forth the allocation of the rate base at December 31, 2007. The results of the rate base allocation are used to allocate capital related elements of the revenue requirement such as net operating income and income taxes.

The accompanying Schedule P3 sets forth the allocation of the depreciation expense at December 31, 2007. The results of this allocation are used to allocate the pro forma depreciation and amortization expense.

The accompanying Schedule P4 sets forth in detail the allocation of the pro forma operation and maintenance expense. The results of this allocation become part of the revenue requirement allocation.

The accompanying Schedule P5 sets forth the allocation of the pro forma operating expense and other revenue requirements. Other revenue has been deducted from the revenue requirement allocations resulting in a net revenue requirement allocation. As shown on Schedule P5, the Volume Cost component accounts for 60.02% of the net revenue requirement while the Customer Cost Component accounts for 26.70% and the Direct Fire Cost Component accounts for 13.28%.

The right-most columns of Schedules P1 through P5 are headed "Allocation Code" and set forth the codes for the specific allocation factors used in this study. The allocation codes are simply reference numbers which designate groups of percentages which are used to allocate the total amount of any given cost element to the several cost functions. The accompanying Schedule P6 lists the allocation codes and percentage factors and contains a brief written description of the allocation bases.

Allocation of Mains and Distribution Reservoirs

As noted previously herein, portions of the costs and expenses related to transmission and distribution mains and distribution reservoirs were allocated to both the Customer Cost Component and the Direct Fire Cost Component in addition to being allocated to the Volume Cost Component. As shown by Allocation Code 04 on Schedule P6, 45% of the main costs and expenses were allocated to volume with 30% allocated to customer and 25% allocated to direct fire. These percentages were determined through an analysis of the inch-feet of mains in service at December 31, 2007.

The accompanying Schedule P7 sets forth the lengths of transmission and distribution mains in service as of December 31, 2007. As shown on Page 1 of Schedule P7, there were a total of 71,164 feet of transmission and distribution mains in service as of December 31, 2007. Page 1 of Schedule P7 illustrates both the reduction of all larger size mains to a 2" diameter and the calculation of inch-feet of mains. An inch-foot is simply the length of main in feet multiplied by the size of the diameter in inches. As shown on Page 1 of Schedule P7, there was an actual total of 484,910 inch-feet as of December 31, 2007. Under the reduction in size, there are only 142,328 inch-feet or about 30% of the actual number. This 30% is the customer cost portion of the mains. In essence, reducing the mains to 2" in diameter is similar to developing a minimum size system. This is also similar to the minimum size distribution system concept used in electric cost of service analyses.

Page 2 of Schedule P7 sets forth the methodology used to determine the direct fire cost portion of mains. All mains larger than 4" were reduced to the next smaller size. Generally, without fire protection, mains can be sized at least one size smaller. As shown on Page 2 of Schedule P7, this reduction results in 355,642 inch-feet which is 26.66% less than the actual number. That is, approximately 25% (26.66% rounded down) of the main size is directly related to fire protection. This 25% is the direct fire cost portion of the mains.

Private Fire Protection/Municipal Fire Protection

The Direct Fire Cost Component contains costs related to the provision of both private fire protection and municipal fire protection. The accompanying Schedule P8 sets forth the allocation of direct fire costs to private and municipal fire protection. The allocations are primarily based on the relative numbers of hydrants and the weighted fire protection units.

The accompanying Schedule P9 illustrates the development of the percentage factors used in the allocation of direct fire costs to private fire and municipal fire.

The accompanying Schedule P10 sets forth the calculation of the weighted fire protection units. As noted thereon, the weighting factors are based on the ratio of the cross-sectional area of a given service size to the cross-sectional area of a 6" service, with hydrants assumed to have 6" branches.

In addition to the direct fire costs, certain elements of both the volume cost and the customer cost are related to the provision of both private fire protection service and municipal fire protection service. The accompanying Schedule P11 illustrates the allocation of volume costs and customer costs to private fire and municipal fire.

Customer costs were allocated to fire based on the relative numbers of bills and the weighted number of services. The accompanying Schedule P12 shows the numbers of bills and the calculation of weighted services. Weighted services are based on the ratio of service diameters.

In order to allocate volume costs to fire, reference was made to the AWWA Water Rates Manual M1, Fourth Edition. Chapter 5 therein, "Rate Design for Small Water Utilities", indicates that it is appropriate and reasonable for a water utility with 635 customers to obtain approximately 30% of its revenues from fire protection charges. This recommendation was used as a guideline to allocate some of the volume costs to fire. As noted at the bottom of Schedule P11, a conservative approach was taken by setting fire protection revenue to 20% of the total revenue requirement; this resulted in \$42,746 of volume costs being allocated to fire.

After allocating direct fire to private and municipal fire and allocating volume and customer costs to fire, the resulting allocation, as shown at the bottom of Schedule P11, indicates that 53.50% of the revenue requirement is attributable to volume costs, 26.50% is attributable to customer costs, 2.42% is attributable to private fire, and 17.58% is attributable to municipal fire. This information allows for the development of a rate design to generate the revenue requirement.

Revenues From Present Rates

Before designing a schedule of developed rates based on the allocations set forth herein, revenues under present rates were calculated. This calculation was based on the reported numbers of meters and fire protection units in service at December 31, 2007 together with the reported billable volumetric water usage during calendar year 2007.

The accompanying Schedule P13 sets forth the calculation of revenues under present rates. As shown on Page 3 of Schedule P13, 48.34% of present rate revenue is obtained from general water service volumetric charges, 20.38% is obtained from general water service customer (or minimum) charges, 4.65% is obtained from private fire protection charges, and 26.63% is obtained from municipal fire protection charges.

The Existing Pittsfield Division Rate Schedule

The present rate schedule used by the Company for general water service comprises a monthly minimum customer charge which varies by meter size together with a uniform volumetric usage charge applied to all water used. With respect to private fire protection service, there is a monthly charge which varies by connection or service size.

With respect to municipal fire protection service, there are two parts to the total charge for service. At present, there is a \$66.63 monthly charge per hydrant combined with an effective annual inch-foot charge of \$0.14040 applied to mains 6" and larger in diameter. (It is noted that per Schedule FP-M of the tariff, the inch-foot charge is stated as \$0.03510; however, this charge is billed four times per year, resulting in an effective annual \$0.14040 inch-foot charge. It is suggested that the tariff language be modified to avoid any confusion or mis-interpretation in the billing procedures.)

The rates and charges presently set forth in the PAC tariff were used in the calculation of present rate revenues on Schedule P13 and may be found thereon.

Rate Design

The design of rates, based on the allocations set forth and discussed herein, is presented on the accompanying Schedule P14.

Page 1 of Schedule P14 addresses both municipal and private fire protection. As noted thereon, the present revenue from municipal fire protection is about 5.2% greater than the cost of service indications while the present revenue from private fire protection is about 33.4% greater than the cost of service indications. Therefore, no changes were developed for either municipal or private fire protection rates and charges.

Page 2 of Schedule P14 sets forth the rate design for the customer or minimum charges. As shown thereon, an increase of about 87.3% is indicated. The monthly rates for all meter sizes have been increased by this percentage.

Page 3 of Schedule P14 sets forth the design of the volumetric usage rate. The volumetric rate is the "balance wheel" in the rate design. It provides the remaining amount of the pro forma net revenue requirement after deducting the developed revenues from municipal fire protection, private fire protection and customer charges. The developed volumetric rate is about 54.2% greater than the existing volumetric rate.

Revenues from Developed Rates

The accompanying Schedule P15 sets forth the calculation of revenues under the developed rates. As shown on Page 3 of Schedule P15, 51.77% of developed rate revenue is obtained from general water service volumetric charges, 26.51% is obtained from general water service customer (or minimum) charges, 3.23% is obtained from private fire protection charges, and 18.49% is obtained from municipal fire protection charges. The developed rates, when applied to the billing parameters, generate \$656,038 in revenue. This revenue amount is about \$29 less than the net revenue requirement of \$656,067. This difference is only 0.004% and is considered negligible.

<u>Closure</u>

The results of the studies set forth and discussed herein can provide guidelines to be utilized in restructuring the Company's rates and charges for service. However, it must be remembered that cost of service allocations are the products of analyses based in part on judgment and experience and as such, while their results are a substantial aid in the design of rates, they are not meant to be literal, exact "gospel truth" type answers. Seldom, if ever, are rates exactly in line with the costs of service at any given time nor is it usually possible to design rate structures which are in complete exact agreement with all aspects of a cost of service allocation study. Generally, minor differences will exist just as a matter of normal circumstances. In addition, attempts to exactly meet the cost of service indications in one rate adjustment can impose extremely large and undue burdens on individual customers or customer groups. Most rate consultants favor a process of gradually bringing deficiency in revenue generation in line with cost of service indications so as to avoid or ameliorate undue or abrupt changes in rate structure. Actual rate and tariff design, in addition to relying on the results of cost of service allocation analyses, should also include consideration of policy matters, impact and extent of rate changes, past historical practice, future planning, special customer characteristics and regulatory and contract requirements.

Docket No. 20-153 Exhibit 1

Pittsfield Aqueduct Company, Inc. Pittsfield Division

Schedules P1 through P15

to Accompany

Report on Cost of Service Allocations and Rate Design

AUS Consultants

By

John R. Palko Principal

155 Gaither Drive, Suite A Mount Laurel, NJ 08054

May 2008

Schedule P1 Page 1 of 1

Pittsfield Aqueduct Company, Inc. Pittsfield Division Allocation of Utility Plant in Service at December 31, 2007

Acc't Description	Total <u>Cost</u>	Volume	Customer	Direct Fire	Allocation <u>Code</u>
Source of Supply and Pumping Plant					
303 Land and Land Rights	44,180	44,180	0	0	01
304 Structures and Improvements	71,250	71,250	0	0	01
305 Collecting and Impounding Reservoirs	48.493	48,493	0	0	01
306 Lake, River and Other Intakes	29,050	29,050	0	0	01
307 Wells and Springs	0	0	0	0	01
309 Supply Mains	4,551	4,551	0	0	01
310 Power Generation Equipment	0	0	0	0	01
311 Pumping Equipment	1,060	1,060	0	0	01
Total Supply and Pumping Plant	198,584	198,584	0	0	
Water Treatment Plant					
304 Structures and Improvements	934,998	934,998	0	0	01
320 Water Treatment Equipment	13,656	13,656	0	0	01
Total Water Treatment Plant	948,654	948,654	0	0	
Transmission and Distribution Plant					
330 Distribution Reservoirs	0	0	0	0	04
331 Transmission and Distribution Mains	2,086,126	938,757	625,838	521,531	04
333 Services	153,162	0	153,162	0	02
334 Meters and Meter Installations	140,371	0	140,371	0	02
335 Hydrants	77,338	0	0	77,338	03
Subtotal Transmission and Distribution Plant	2,456,997	938,757	919,371	598,869	
Percents Code 05	100.00%	38.21%	37.42%	24.37%	
339 Other Plant and Miscellaneous Equipment	1,494	571	559	364	05
Total Transmission and Distribution Plant	2,458,491	939,328	919,930	599,233	
Subtotal Above Plant	3,605,729	2,086,566	919,930	599,233	
Percents Code 06	100.00%	57.87%	25.51%	16.62%	
General Plant					
340 Office Furniture and Equipment	0	0	0	0	06
343 Tools Shop and Garage Equipment	9,688	5,606	2,471	1,611	06
344 Laboratory Equipment	3,939	2,279	1,005	655	06
346 Communication Equipment	28,612	16,558	7,299	4,755	06
347 Computer Equipment	25,899	14,988	6,607	4,304	06
348 Miscellaneous Equipment	13,054	7,554	3,330	2,170	06
Total General Plant	81,192	46,985	20,712	13,495	
Intanoible Plant					
301 Organization	75,551	43,721	19,273	12,557	06
302 Franchise	0	0	0	0	06
Total Intangible Plant	75,551	43,721	19,273	12,557	
Total Utility Plant in Service	3,762,472	2,177,272	959,915	625,285	
Percents Code 06	100.00%	57.87%	25 51%	16.62%	

Schedule P2 Page 1 of 1

Pittsfield Aqueduct Company, Inc. Pittsfield Division Allocation of Rate Base at December 31, 2007

Acc't Description		Total <u>Cost</u>	Volume	<u>Customer</u>	Direct Fire	Allocation <u>Code</u>
Total Utility Plant in Ser	vice	3,762,472	2,177,272	959,915	625,285	
Accumulated Depreciation						
Organization		(18,888)	(10,930)	(4,818)	(3,140)	06
Structures		(243,274)	(243,274)	0	0	01
Pumping and Distribution	on Equipment	(5,901)	(5,901)	0	0	01
Transmission and Distr		(503,944)	(226,775)	(151,183)	(125,986)	04
Services		(59,462)	0	(59,462)	0	02
Meters		(21,260)	Ō	(21,260)	ō	02
Hydrants		(17,247)	õ	(21,200)	(17,247)	03
Other Equipment		(44,990)	(26,036)	(11,477)	(7,477)	06
Accumulated Deprecial	ion - Loss	111.293	64,405	28.391	18,497	06
Accumulated Depreciat		3,019	1,747	770	502	06
Accumulated Deprecial	INT - COST OF INGINIDARI	5,018	1,/4/	110	502	00
Total Accumulated Dep	reciation	(800,654)	(446,764)	(219,039)	(134,851)	
Contributions In Aid of Construction	n					
CIAC - Mains	-	(750,286)	(337,629)	(225,086)	(187,571)	04
CIAC - Water Filtration		(398,350)	(398,350)	0	0	01
Amortize CIAC - Mains		143,887	64,749	43,166	35,972	04
Amortize CIAC - Water	Filtration	76,393	76,393	0	0	01
Total CIAC		(928,356)	(594,837)	(181,920)	(151,599)	
Subtotal Above Rate B	ase Items	2,033,462	1,135,671	558,956	338,835	
Additions to Rate Base						
Working Capital		57.288	36,985	15,233	5.070	09
Materials & Supplies		0	0	0	0	06
Prepaid Insurance		6,738	3,899	1,719	1,120	06
Prepaid Property Taxes	5	4,314	2,497	1,101	716	06
Deferred Charges - Ma		20.512	9,230	6,154	5,128	04
Deferred Charges - Oth		34,363	19,886	8,766	5,711	06
Total Additions		123,215	72,497	32,973	17,745	
Deductions from Rate Base						
Customer Advances		0	0	0	0	04
Customer Deposits		(86)	õ	(86)	õ	02
Deferred Income Tax		(246,512)	(142,656)	(62,885)	(40,971)	06
Total Deductions		(246,598)	(142,656)	(62,971)	(40,971)	
Totaki Rate Base		1,910,079	1,065,512	528,958	315,609	
Percents Code 13		100.00%	55.79%	27.69%	16.52%	

Schedule P3 Page 1 of 1

Pittsfield Aqueduct Company, Inc. Pittsfield Division Allocation of Depreciation Expense - Pro Forma at December 31, 2007

Acc't Description	Total <u>Cost</u>	Volume	Customer	Direct Fire	Allocation Code
	<u>Ovar</u>	VOIDINE	OUSIONEI	DREGLINE	0000
Source of Supply and Pumping Plant 303 Land and Land Rights	0	0	0	0	04
304 Structures and Improvements	1,644	0 1,644	0	0	01
305 Collecting and Impounding Reservoirs	713	713	0	0	01
306 Lake, River and Other Intakes	582	582	0	0	01
307 Wells and Springs	0	0	0	0	01
309 Supply Mains	60	60	Ő	Ő	01
310 Power Generation Equipment	0	0	Ő	Ő	01
311 Pumping Equipment	65	65	0	0	01
Total Supply and Pumping Depreciation Exp.	3,064	3,064	0	0	
Water Treatment Plant					
304 Structures and Improvements	21,885	21,885	0	0	01
320 Water Treatment Equipment	799	799	0	0	01
Total Water Treatment Depreciation Exp.	22,684	22,684	0	0	
Transmission and Distribution Plant					
330 Distribution Reservoirs	0	0	0	0	04
331 Transmission and Distribution Mains	33,906	15,258	10,172	8,476	04
333 Services	3,090	0	3,090	0	02
334 Meters and Meter Installations	6,478	0	6,478	0	02
335 Hydrants	1,029	0	0	1,029	03
Subtotal Trans.and Dist.Depreciation Exp.	44,503	15,258	19,740	9,505	
339 Other Plant and Miscellaneous Equipment	84	32	31	21	05
Total Trans.and Dist.Depreciation Exp.	44,587	15,290	19,771	9,526	
Subtotal Above Depreciation Exp.	70,335	41,038	19,771	9,526	
General Plant					
340 Office Furniture and Equipment	0	0	0	0	06
343 Tools Shop and Garage Equipment	762	441	194	127	06
344 Laboratory Equipment	197	114	50	33	06
346 Communication Equipment	1,431	828	365	238	06
347 Computer Equipment 348 Miscellaneous Equipment	181	105	46	30	06
sto miscenarieous Equipment	218	126	56	36	06
Total General Depreciation Exp.	2,789	1,614	711	464	
Intangible Plant					
301 Organization	3,778	2,186	964	628	06
302 Franchise	0	0	0	0	06
Total Intangible Depreciation Exp.	3,778	2,1 8 6	964	628	
Subtotal Utility Plant Depreciation Exp.	76,902	44,838	21,446	10,618	
Percents Code 07	100.00%	58.30%	27.89%	13.81%	
Add New Depreciation Rate Adjustment	(2,486)	(1,449)	(693)	(344)	07
Total Utility Plant Deprectation Exp Pro Forma	74,416	43,389	20,753	10,274	

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Pittsfield Aqueduct Company, Inc. Pittsfield Division Allocation of Operation and Maintenance Expense - Pro Forma at December 31, 2007

Acc't Description	Total <u>Cost</u>	<u>Volume</u>	<u>Customer</u>	Direct Fire	Allocation <u>Code</u>
Production Expenses					
Total Supply, Pumping, and Water Treatment	71,496	71,496	0	0	01
Transmission and Distribution Expenses					
662 Trans & Dist Lines Expense	418	188	125	105	04
663 Meter Expenses	1,391	0	1,391	0	02
664 Customer Installation Expenses	191	0	191	0	02
665 Miscellaneous Expenses	659	0	659	0	02
660 Operation Supervision and Engineering	10,197	3,896	3,816	2,485	05
673 Maintenance of Trans & Dist Mains	13,805	6,212	4,142	3,451	04
675 Maintenance of Services	10,462	0	10,462	0	02
676 Maintenance of Meters	130	0	130	0	02
677 Maintenance of Hydrants	4,614	0	0	4,614	03
678 Maintenance of Miscellaneous Equipment	2,913	1,113	1,090	710	05
Total Transmission and Distribution O&M	44,780	11,409	22,006	11,365	
Percents Code 08	100.00%	25.48%	49.14%	25.38%	
Customer Accounts Expenses Total Customer Accounts Expenses Subtotal Above O&M Expenses	12,136 128,412	0 82,905	12,136 34,142	0 11,365	02
Percents Code 09	100.00%	64.56%	26.59%	8.85%	
Administrative and General Expenses 924 Property Insurance All Other A&G Expense	7,912 12,935	4, 579 8,351	2,018 3,439	1,315 1,145	06 09
Total Administrative and General Expenses	20,847	12,930	5,457	2,460	
Subtotal Above O&M Expenses	149,259	95,835	39,599	13,825	
Percents Code 10	100.00%	64.21%	26.53%	9.26%	
<u>Inter Div Management Fee</u> Total Management Fee	246,770	150,628	64,210	31,932	11
Total Operation and Maintenance Expenses	396,029	246,463	103,809	45,757	
Percents	100.00%	62.23%	26.21%	11.56%	

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Pittsfield Aqueduct Company, Inc. Pittsfield Division Allocation of Pro Forma Operating Expense and Other Revenue Requirements

Acc't Description	Total <u>Cost</u>	Volume	Customer	Direct Fire	Allocation Code
Operation and Maintenance Expense Total Operating Expense	396,029	246,463	103,809	45,757	
Depreciation and Amortization Total Depreciation and Amortization	65,699	38,303	18,323	9,073	07
Taxes Other Than Income Taxes Total Other Taxes (Property Taxes)	37,366	21,624	9,532	6,210	06
Net Operating Income Pro Forma Net Operating Income	145,140	80,974	40,189	23,977	13
Income Taxes Pro Forma Income Taxes	17,205	9,599	4,764	2,842	13
Total Pro Forma Revenue Requirement	661,439	396,963	1 7 8,617	87,859	
Percents Code 12	100-00%	60.02%	26.70%	13.28%	
Less Other Revenue	(5,372)	(3,224)	(1,434)	(714)	12
Net Revenue Requirement	656,067	393,739	175,183	87,145	
Percents Code 12	100.00%	60.02%	26.70%	13.28%	

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Pittsfield Aqueduct Company, Inc. Pittsfield Division Summary of Allocation Factors

Allocation Code	Description	% <u>Volume</u>	% <u>Customer</u>	% <u>Direct Fire</u>	Check <u>Total %</u>
01	Volume Cost	100.00	0.00	0.00	100.00
02	Customer Cost	0.00	100.00	0.00	100.00
03	Direct Fire Cost	0.00	0.00	100.00	100.00
04	Trans. And Dist. Mains	45.00	30.00	25.00	100.00
05	Trans. And Dist. Plant	38.21	37.42	24.37	100.00
06	Total Plant	57.87	25,51	16.62	100.00
07	Depreciation Expense	58.30	27.89	13.81	100.00
08	Trans. And Dist. O&M Expense	25.48	49.14	25.38	100.00
09	O&M Before A&G and Management Fee	64.56	26.59	8.85	100.00
10	O&M Before Management Fee	64.21	26.53	9.26	100.00
11	Management Fee	61.04	26.02	12.94	100.00
12	Revenue Requirement	60.02	26.70	13.28	100.00
13	Rate Base	55.79	27.69	16.52	100.00

Explanation of Factors Used in the Allocations

- 01 This Code allocates items 100 percent to Volume Cost
- 02 This Code allocates items 100 percent to Customer Cost.
- 03 This Code allocates items 100 percent to Direct Fire Cost.
- 04 This Code allocates items to the cost components based on analyses of transmission and distribution inch-feet.
- 05 This Code allocates items to the cost components based on the composite allocation of transmission and distribution plant.
- 06 This Code allocates items to the cost components based on the composite allocation of total utility plant
- 07 This Code allocates items to the cost components based on the composite allocation of depreciation expense.
- 08 This Code allocates items to the cost components based on the composite allocation of transmission and distribution operation and maintenance expense.
- 09 This Code is based on the composite allocation of O&M expense without A&G expense and the management fee.
- 10 This Code is based on the composite allocation of O&M expense without the management fee.
- 11 This Code is based on equal weightings of Codes 06 and 11. It is used to allocate the management fee.
- 12 This Code allocates items to the cost components based on the composite allocation of the revenue requirement.
- 13 This Code allocates items to the cost components based on the composite allocation of the rate base.

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342,582.0

70.65%

Pittsfield Aqueduct Company, Inc. Pittsfield Division Transmission and Distribution Inch-Feet Inch-Feet of Mains in Service at December 31, 2007 Reduce Larger Mains to 2" Size

Actu	ual Mains in S	Service	Reduce Larger Mains t		to 2" Size
<u>Size</u>	<u>Length</u>	In-Ft	Size	<u>Length</u>	In-Ft
1 1/4'	0	0.0	1 1/4'	0	0.0
1 1/2"	0	0.0	1 1/2"	0	0.0
2"	5,345	10,690.0	2"	5,345	10,690.0
3"	0	0.0	2"	0	0.0
4"	1,185	4,740.0	2"	1,185	2,370.0
6"	30,701	184,206.0	2"	30,701	61,402.0
8"	29,622	236,976.0	2"	29,622	59,244.0
10"	1,717	17,170.0	2"	1,717	3,434.0
12"	2,594	31,128.0	2"	2,594	5,188.0
Total	71,164	484,910.0	Total	71,164	142,328.0
Inch-Feet Based on Actual Size of Mains					484,910.0
Inch-Feet Based on Reduced Size of Mains					142,328.0

Difference

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129,268.0

26.66%

Pittsfield Aqueduct Company, Inc. Pittsfield Division Transmission and Distribution Inch-Feet Inch-Feet of Mains in Service at December 31, 2007 Reduce Larger One Size

Actu	ual Mains in S	Service	Reduced One		ne Size	
<u>Size</u>	Length	In-Ft	Size	<u>Length</u>	In-Ft	
1 1/4'	0	0.0	1 1/4'	0	0.0	
1 1/2"	0	0.0	1 1/2"	0	0.0	
2"	5,345	10,690.0	2"	5,345	10,690.0	
3"	0	0.0	3"	0	0.0	
4"	1,185	4,740.0	4"	1,185	4,740.0	
6"	30,701	184,206.0	4"	30,701	122,804.0	
8"	29,622	236,976.0	6"	29,622	177,732.0	
10"	1,717	17,170.0	8"	1,717	13,736.0	
12"	2,594	31,128.0	10"	2,594	25,940.0	
Total	71,164	484,910.0	Total	71,164	355,642	
Inch-Feet Based on Actual Size of Mains					484,910.0	
Inch-Feet Based on Reduced Size of Mains					355,642.0	

Difference

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Pittsfield Aqueduct Company, Inc. Pittsfield Division Allocation of Direct Fire Costs to Private and Municipal Fire

ltem	Total Direct <u>Fire</u>	Private Fire <u>Protection</u>	Municipal Fire <u>Protection</u>
Total Operating Expense - C	45,757	2,928	42,829
Total Depreciation and Amort - B	9,073	1,191	7,882
Total Other Taxes - A	6,210	796	5,414
Pro Forma Net Oper Income - A	23,977	3,074	20,903
Pro Forma Income Taxes - A	2,842	364	2,478
Total Pro Forma Revenue Req'm'nt	87,859	8,353	79,506
Percents	100.00%	9.51%	90.49%
Less Other Revenue	(714)	(68)	(646)
Net Revenue Requirement	87,145	8,285	78,860
Percents	100.00%	9.51%	90.49%

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Pittsfield Aqueduct Company, Inc. Pittsfield Division Development of Factors for Private/Municipal Fire Allocation

have	Total Direct	Private Fire Pertoction	Municipal Fire Bistantian
ltem	<u>Fire</u>	Protection	Protection
Plant in Service Hydrants	77,338	0	77,338
Allocated Based on Number of Hydrants	65	0	65
Dist. Reservoirs Trans. And Dist. Mains	0 521,531		
Total	521,531	76,769	444,762
Allocated Based on Weighted Number of Units	100.00%	14.72%	85.28%
Total Above Plant	598,869	76,769	522,100
Plant Percents - A	100.00%	12.82%	87. 18%
Depreciation Expense Hydrants	1,029	0	1,029
Allocated Based on Number of Hydrants	65	0	65
Dist. Reservoirs Trans. And Dist. Mains	0 8,476		
Total	8,476	1,248	7,228
Allocated Based on Weighted Number of Units	100.00%	14.72%	85.28%
Total Above Depr. Exp.	9,505	1,248	8,257
Depr. Exp. Percents - B	100.00%	13.13%	86.87%
O&M Expense Hydrants	4,614	0	4,614
Allocated Based on Number of Hydrants	65	0	65
Dist. Reservoirs Trans. And Dist. Mains	0 3,556		
Total	3,556	523	3.033
Allocated Based on Weighted Number of Units	100.00%	14.72%	85.28%
Total Above O&M Exp.	8,170	523	7,647
O&M Exp. Percents - C	100.00%	6.40%	93.60%

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Pittsfield Aqueduct Company, Inc. Pittsfield Division Calculation of Weighted Fire Protection Units

Private Fire Protection

			Weighted	
<u>Size</u>	<u>Number</u>	Factor	Number	<u>%</u>
4"	1	0.44	0.44	
6"	9	1.00	9.00	
8"	1	1.78	1.78	
Total	11		11.22	14.72%

Municipal Fire Protection

Actual Number of Hydrants:				
65	1.00	65.00	85.28%	
		76.22	100.00%	
	-		65 1.00 65.00	

Notes: Weighting factors are based on the ratio of the cross-sectional area of a given size to the cross-sectional area of a 6" service. Hydrants are assumed to have a 6" branch.

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Pittsfield Aqueduct Company, Inc. Pittsfield Division Allocation of Volume and Customer Costs to Fire Protection

COS Allocation Results

COS Anocation Results	\$ Amount	%
Volume Costs	393,739	60 02%
Customer Costs	175,183	26.70%
Direct Fire Costs - Private	8,285	1.26%
Direct Fire Costs - Municipal	78,860	12.02%
Net Revenue Requirement	656,067	100.00%

The above results contain certain volume costs and certain customer costs which are property allocable to private fire and to municipal fire.

Customer Costs; Cust. Rec. & Coll. Exp.: Remain in Customer Alloc to Private Fire Alloc to Municipal Fire	<u>\$ Amount</u> 7,559 131 12	<u>% of Bills</u> 98∠15% 1.70% 0.15%
Total Cust. Rec. & Coll. Exp.	7,702	100.00%
Cust. Installation Exp.: Remain in Customer Alloc to Private Fire Alloc to Municipal Fire	<u>\$ Amount</u> 170 21 0	<u>% of Svcs</u> 88 93% 11.07% 0.00%
Total Cust. Installation Exp.	191	100.00%
Maint. of Services: Remain in Customer Alloc to Private Fire Alloc to Municipal Fire	<u>\$ Arnount</u> 9,304 1,158 0	<u>% of Svcs</u> 88.93% 11.07% 0.00%
Total Maint. of Services	10,462	100.00%

With above three allocations, the resulting fire allocation becomes:

\$ Amoun	t %
88,467	13.48%

According to AWWA Water Rates Manual M1, Fourth Edition, Chapter 5, "Rate Design for Small Water Utilities", it is appropriate for aproximately 30% of the revenues of a 635 customer water utility to be obtained from fire protection. This recommendation can be used as a guideline to allocate some of the volume costs to fire protection. To be conservative, the target fire protection revenue can be set at 20% of total revenue or \$ 131.213 this means that \$ 42,746 of the volume costs would then be allocated tore.

Reallocate Volume Costs: Alloc to Private Fire	<u>\$ Amount</u> 6,292	<u>% of Units</u> 14.72%
Alloc to Municipal Fire	36,454	85.28%
Total Reallocated Volume Cost	42,746	100 00%
Reallocation Results		
	\$ Amount	<u>%</u>
Volume Costs	350,993	53.50%
Customer Costs	173,861	26.50%
Direct Fire Costs - Private	15,887	2.42%
Direct Fire Costs - Municipal	115,326	17.58%
Net Revenue Requirement	656,067	100.00%

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Pittsfield Aqueduct Company, Inc. Pittsfield Division Calculation of Weighted Number of Services

GWS				
Meter	Number	Service	Weighted	
<u>Size</u>	of Meters	Factor	Number	<u>%</u>
5/8"	596	1.0	596.0	
3/4"	1	1.3	1.3	
1"	14	2.0	28.0	
1 1/2"	11	2.7	29.7	
2"	12	4.0	48.0	
3"	1	4.0	4.0	
4"	0	5.3	0.0	
Total	635		707.0	88.93%

Private Fire <u>Size</u> 4" 6" 8"	<u>Number</u> 1 9 1	Service <u>Factor</u> 5.3 8.0 10.7	Weighted <u>Number</u> 5.3 72.0 10.7	
Total	11		88.0	11.07%
Grand Total			795.0	100.00%

Notes: Weighting factors are based on the ratio of service diameters.

Percentage Distribution of Bills

<u>Class</u>	Number of Bills	<u>%</u>	
GWS	7,620	98.15	%
Private Fire	132	1.70	%
Muni. Fire	12	0.15	%
Total	7,764	100.00	%

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Pittsfield Aqueduct Company, Inc. Pittsfield Division Calculation of Revenues Under Present Rates

General Water Service

Residential: Meter <u>Size</u> 5/8" 3/4" 1" 1 1/2" 2" 3" 4"	Number <u>of Meters</u> 537 1 8 6 1 0 0	Number of Bills 6,444 12 96 72 12 0 0	Present <u>Rate</u> \$ 10.27 14.61 22.08 39.81 61.58 114.41 187.49	\$ Present <u>Revenue</u> 66,179.88 175.32 2,119.68 2,866.32 738.96 0.00 0.00
Total	553	6,636		\$ 72,080.16
Volume:	<u>CCFT</u> 53,886		\$ 3.30	\$ 177, <mark>823</mark> .80
Commercial Meter <u>Size</u> 5/8" 3/4" 1" 1 1/2" 2" 3" 4"	Number of Meters 54 0 6 5 6 0 0 0	Number of Bills 648 0 72 60 72 0 0	Present <u>Rate</u> \$ 10.27 14.61 22.08 39.81 61.58 114.41 187.49	\$ Present <u>Revenue</u> 6,654.96 0.00 1,589.76 2,388.60 4,433.76 0.00 0.00
Total	71	852		\$ 15,067.08
Volume:	<u>CCFT</u> 10,371		\$ 3.30	\$ 34,224.30
Industrial Meter 5/8" 3/4" 1" 1 1/2" 2" 3" 4"	Number of Meters 2 0 0 0 0 3 0 0 0	Number of Bills 24 0 0 0 36 0 0	Present <u>Rate</u> \$ 10.27 14.61 22.08 39.81 61.58 114.41 187.49	\$ Present <u>Revenue</u> 246.48 0.00 0.00 0.00 2,216.88 0.00 0.00
Total	5	60		\$ 2,463.36
Volume:	<u>CCFT</u> 1,270		\$ 3.30	\$ 4,191.00

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Pittsfield Aqueduct Company, Inc. Pittsfield Division Calculation of Revenues Under Present Rates

General Water Service - Continued

<u>Municipal</u>					
Meter	Number	Number	P	resent	Present
<u>Size</u>	of Meters	<u>of Bills</u>	ļ	<u>Rate</u>	Revenue
5/8"	3	36	\$	10.27	\$ 369.72
3/4"	0	0		14.61	0.00
1"	0	0		22.08	0.00
1 1/2"	0	0		39.81	0.00
2"	2	24		61.58	1, 47 7.92
3"	1	12		114.41	1,372.92
4"	0	0		187.49	0.00
Total	6	72			\$ 3,220.56
	CCFT				
Volume:	1,203		\$	3.30	\$ 3,969.90
Grand Tota	i GWS Revenu	Je			\$ 313,040.16

Fire Protection Service

Private Fire Protection

Size	Number	Number <u>of Bills</u>	Present <u>Rate</u>	Present <u>Revenue</u>
4"	1	12	\$ 53.63	643.56
6"	9	108	153.91	16,622.28
8"	1	12	326.87	3,922.44
Total	11	132		\$ 21,188.28

Municipal Fire Protection

<u>Size</u> Hydrant Inch-Feet	<u>Number</u> 65 493,754	<u>of Bills</u> 780 1,975,016	\$	<u>Rate</u> 66.63 .03510	\$ Revenue 51,971.40 69,323.06
Grand Total	Munipical F	ire Revenue	1		\$ 121,294.46

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Pittsfield Aqueduct Company, Inc. Pittsfield Division Summary of Revenues Under Present Rates

Description		<u>Amount</u>	<u>%</u>
GWS Volume Revenue GWS Customer Charge Revenue	\$ \$	220,209.00 92,831.16	48.34% 20.38%
Grand Total GWS Revenue	\$	313,040.16	68.72%
Grand Total Private Fire Revenue	\$	21,188.28	4.65%
Grand Total Munipical Fire Revenue	\$	121,294.46	26.63%
Grand Total Revenue	\$	455,522.90	100.00%

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Pittsfield Aqueduct Company, Inc. Pittsfield Division Rate Design

Municipal Fire Protection

Allocated Costs	\$ 115,326
Present Revenue	\$ 121,294.46

Present revenue is about 5.2% greater than the cost of service indications. Therefore, no increases will be developed for municipal fire protection.

	Private Fire Pr	otection
Allocated Costs	\$	15,887
Present Revenue	\$	21,188.28

Present revenue is about 33.4% greater than the cost of service indications. Therefore, no increases will be developed for private fire protection.

Pittsfield Aqueduct Company, Inc. Pittsfield Division Rate Design

GWS Customer Charges (Minimum Charges)

Allocated Costs	\$ 173,861
Present Revenue - Cust Chgs	\$ 92,831.16
Increase Required	\$ 81,029.84

87.29 %

Rate Element	-	resent fonthly <u>Rate</u>		Developed Monthly <u>Rate</u>	% Increase	
5/8"	\$	10.27	\$	19.24	87.34	%
3/4"		14.61		27.37	87.34	%
1"		22.06		41.33	87.35	%
1 1/2"		39.81		74.57	87.31	%
2"		61.58		115.34	87.30	%
3"		114.41		214.29	87.30	%
4"		187.49		351.16	87.30	%
6"		373.98		700.44	87.29	%
8"		622.01		1,164.97	87.29	%

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Pittsfield Aqueduct Company, Inc. Pittsfield Division Rate Design

GWS Volumetric Rate

Pro Forma Net Revenue Requirement	\$ 656,066.60
Revenue from Developed Rates	
Municipal Fire Protection	121,294.46
Private Fire Protection	21,188.28
Customer Charges (Minimum Charges)	173,900.04
Remaining from Volumetric Rate	\$ 339,683.82
Annual Volume in 100 cu. ft.	66,730
Designed Rate per 100 cu. ft.	\$ 5.09

Rate Element	Present <u>Rate</u>		Developed <u>Rate</u>		% Increase	
Per 100 cu. ft.	\$	3.30	\$	5.09	54.24	%

Pittsfield Aqueduct Company, Inc. Pittsfield Division Calculation of Revenues Under Developed Rates

General Water Service

Resider	ntial:						
Mete		Number	Numb	er	De	veloped	Developed
Size	<u> </u>	f Meters	<u>of Bil</u>	s		Rate	Revenue
5/8"		537	6,4		\$	19. 24	\$ 123,982.56
3/4"		1		12		27.37	328.44
1"		8		96		41.33	3,967.68
1 1/2		6		72		74.57	5,369.04
2" 3"		1 0		12 0		115.34 214.29	1,384.08
3 4"		0		0		351.16	0.00 0.00
4		0		U		351.10	0.00
Tota	l	553	6,6	36			\$ 135,031.80
		CCFT					
Volume	¢	53,886			\$	5.09	\$ 274,279.74
Comme	rcial						
Mete		Number	Numb	er	De	veloped	Developed
Size	2 2	of Meters	<u>of Bil</u>	s		Rate	Revenue
5/8"		54	e	48	\$	19.24	\$ 12,467.52
3/4"	•	0		0		27.37	0.00
1"		6		72		41.33	2,975.76
1 1/2	2	5		60		74.57	4,474.20
2" 3"		6 0		72		115.34 214.29	8,304.48
3" ⊿"		0		0		351.16	0.00 0.00
-		0		U		551.10	
Tota	2)	71	8	352			\$ 28,221.96
		CCFT					
Volume	Ľ	10,371			\$	5.09	\$ 52,788.39
Industri	al						
Mete		Number	Numb	er	De	veloped	Developed
Size		of Meters	<u>of Bil</u>	<u>ls</u>		Rate	Revenue
5/8*		2		24	\$	19.24	\$ 461.76
3/4'	4	0		0		27.37	0.00
1"		0		0		41.33	0.00
1 1/2	2	0		0 36		74.57	0.00
2" 3"		3		30 0		115.34 214.29	4,152.24 0.00
3 4"		0		0		351.16	0.00
		0		-		001.10	0.00
Tota	al	5		60			\$ 4,614.00
		CCFT					
Volume):	1,270			\$	5.09	\$ 6,464.30

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Pittsfield Aqueduct Company, Inc. Pittsfield Division Calculation of Revenues Under Developed Rates

General Water Service - Continued

Municipal					
Meter	Number	Number	De	veloped	Developed
Size	of Meters	of Bills		Rate	<u>Revenue</u>
5/8"	3	36	\$	19.24	\$ 692. 64
3/4"	0	0		27.37	0.00
1"	0	0		41.33	0.00
1 1/2"	0	0		74.57	0.00
2"	2	24		115.34	2,768.16
3"	1	12		214.29	2,571.48
4"	0	0		351.16	0.00
Total	6	72			\$ 6,032.28
Volume:	<u>CCFT</u> 1,203		\$	5.09	\$ 6,123.27
Grand Tota	GWS Revenu	Je			\$ 513,555.74

Fire Protection Service

Private Fire	Protection			
Size	Number	Number <u>of Bills</u>	Developed Rate	Developed <u>Revenue</u>
4"	1	12	\$ 53. 63	643.56
6"	9	108	153.91	16,622.28
8"	1	12	326.87	3,922.44
Total	11	132		\$ 21,188.28

Municipal Fire Protection

<u>Size</u> Hydrant	<u>Number</u> 65	<u>of Bills</u> 780		veloped <u>Rate</u> 66.63	\$ Developed Revenue 51,971,40
Inch-Feet	493,754		C	. 14040	69,323.06
Grand Total	Munipical Fi	re Revenue			\$ 121,294.46

Schedule P15 Page 3 of 3

Pittsfield Aqueduct Company, Inc. Pittsfield Division Summary of Revenues Under Developed Rates

Description	<u>Amount</u>	<u>%</u>
GWS Volume Revenue	\$ 339,655.70	51.77%
GWS Customer Charge Revenue	\$ 173,900.04	26.51%
Grand Total GWS Revenue	\$ 513,555.74	78.28%
Grand Total Private Fire Revenue	\$ 21,188.28	3.23%
Grand Total Munipical Fire Revenue	\$ 121,294.46	18.49%
Grand Total Revenue under Developed Rates	\$ 656,038.48	100.00%
Net Revenue Requirement	656,067.00	
Difference	\$ (28.52)	
	-0.004% Negligible	

1604.01(a)(8) Most Recent Construction Budget

		Project Description	Total 2020 incl O/H
Engineering		Subtotal 2019 Carryover/Multi-year Projects	-
Engineering	New 2020 Projects Breach and ERP	Breach and ERP	7.00
		Total 2020 Capital Projects Budget including 2019 carryover	7.00
		Work Description	-
T&D	2019 Carryover/Multi-year Projects	Subtotal 2019 Carryover/Multi-year Projects	-
T&D	New 2020 Projects New Services (1)	New Services (1)	5.00
T&D	Renewed Services (2)	Renewed Services (2)	11.00
T&D	Hydrants (2)	Hydrants (2)	12.00
T&D T&D	Gates (2) Radios (10)	New Gates installation (2) Replace failed Radios (10)	8.00 1.00
T&D	Meters 5/8"-6" New(1) Replace Failed (6)	Meters 5/8"-6" New Meters - PAC (7)	0.70
			-
		Subtotal New 2020 Projects	- 37.70
		Total 2020 Capital Projects Budget including 2019 carryover	37.70
		Work Description	Total 2020 incl O/H
Water Supply	2019 Carryover/Multi-year Projects	n/a	-
		Subtotal 2019 Carryover/Multi-year Projects	-
	New 2020 Projects		
Water Supply	Berry Pond DBP Treatment evaluation/design	Berry Pond DBP Treatment evaluation/design	20.00
Water Supply	Misc. structural improvements	Misc. structural improvements	10.00
Water Supply	PAC lab/Process equipment	PAC lab/Process equipment	10.00
Water Supply Water Supply	Replace filter valve actuators, 3 Replace SCADA PLC	Replace filter valve actuators, 3 Equipment no longer supported by manufacturer	4.00 15.00
Water Supply			
		Subtotal New 2020 Projects	59.00
		Total 2020 Capital Projects Budget including 2019 carryover	59.00
		Work Description	-
		<u>0</u>	
IT			-
			-
		Subtotal 2019 Carryover/Multi-year Projects	
ІТ	PAC lab/Process equipment Switch Replacement for Pittsfield	Change out end of life switch in Pitts.	1.20
	Switch Replacement for Fittsheid	Change out end of the switch in thits.	-
			-
		New Gates installation (2)	- 1.20
		····· ··· ··· ··· ··· ··· ··· ··· ···	
			1.20
		2010 Cormiovor/Multi voor Broingto Tatal DAC	
		2019 Carryover/Multi-year Projects - Total PAC New 2020 Projects - Total PAC	 104.90
		Total Capital Budget - PAC	104.90
			104.30

1604.01(a)(9) Chart of Accounts if Different than NHPUC

The information does not exist.

1604.01(a)(10) Securities and Exchange Commission 10K and 10Q

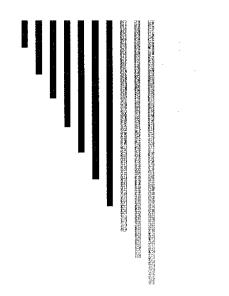
This data does not exist. See Order No. 25,292.

1604.01(a)(11) Membership Fees, Dues and Lobbying Expenses

All memberships are through PWW.

1604.01(a)(12) Depreciation Study if not previously filed in an adjudicative proceeding

Depreciation Study was filed in DW 08-052 and is attached.



Pittsfield Aqueduct Company

Comparative Analysis of Depreciation Rates

Guastella Associates, Inc.

6 Beacon Street. Suite 410, Boston, MA 02108

GUASTELLA ASSOCIATES, INC.

UTILITY MANAGEMENT • VALUATION • RATE CONSULTANTS

6 BEACON STREET. SUITE 410 BOSTON, MA 02108 TEL: (617) 423-3030 FAX: (617) 423-2929

February 25, 2008

Ms. Bonnie Hartley Vice President of Administration Pennichuck Water Works, Inc. 25 Manchester Street Merrimack, NH 03054

Dear Ms. Hartley:

I have completed an analysis of the comparative depreciation rates that would reflect the reasonably recovery of the loss in service value of the depreciable assets of Pittsfield Aqueduct Company.

The results of our analysis are set forth in this report, which includes specific schedules that provide recommended depreciation rates, comparative average service lives and the difference, by account, of the annual depreciation expense under present and recommended depreciation rates, as applied to plant balances as of December 31, 2007.

I very much appreciate this opportunity to provide consulting services, and am available to review this report with you or the PUC Staff.

Respectfully submitted, GUASTELLA ASSOCIATES, INC.

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John F. Guastella President

Pittsfield Aqueduct Company

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Schedule 1 - Recommended Depreciation Rates

Schedule 2 - Comparative Average Service Lives

Schedule 3 - Comparison of Depreciation Expense Under Preset and Recommended Depreciation Rates

* * * * * *

APPENDIX A - Source Data

APPENDIX B - Allocation of Cost of Supply Mains

Introduction

The purpose of this analysis is to establish average service lives, salvage values and resultant depreciation rates that are reasonably applicable to the depreciable property of the Pittsfield Aqueduct Company ("PAC" or "Company").

In accordance with discussions with the Company, as well as an informal discussion with the PUC Staff, a decision was made to perform a depreciation analysis on the basis of the use of comparative average service lives and depreciation rates. The primary reasons for this approach are the lack of sufficient retirement data because of the size of the Company and its historic development, and the high cost of performing actuarial studies that would likely produce incomplete or uncertain results for a small utility with limited retirement data. It has been our experience that for small water utilities, actuarial depreciation studies are rarely, if ever, performed. Instead, depreciation rates are typically established on the basis of comparative analyses. Consistent with that experience, the National Association of Regulatory Utility Commissioners has published guidelines of average service lives and depreciation rates for small water companies, recognizing the need for and acceptance of such comparisons.

Recommendation

The recommended depreciation rates are provided at the outset of this report in order to facilitate a review of subsequent references and supporting analyses. Schedule 1 contains, by primary plant account, the average service lives, net salvage values and annual depreciation rates that in our judgment would best recover the original cost of the Company's depreciable assets. As will be explained later, the recommended depreciation

rates are consistent with those established by the New Hampshire Public Utilities Commission ("PUC") in The Pennichuck Water Works, Inc. ("PWW") last rate case, with a few necessary exceptions.

Source of Comparative Data

All of the source data relied upon with respect to average service lives have been obtained from this firm's files. The source data include determinations of average service lives for utilities with which this firm has been directly or indirectly involved, most based on actuarial studies. The utilities that were selected for this analysis are located in the northern part of the country, the Northeast and Midwestern states. It has been our experience that determinations of average service lives for water utilities in areas of the country where there are extreme seasonal weather changes tend to produce results that are more consistent with each other. It is noted that data for such states as Florida and California were specifically excluded because the average service lives were disproportionately shorter, likely due to different construction characteristics in the climate of those parts of the country.

The source data also includes average service lives published by the National Association of Regulatory Utility Commissioners ("NARUC"). These data are given significant weight because they were specifically developed to assist small water utilities in establishing reasonable depreciation rates. However, the most important source data are the average service lives recently established by the PUC for PWW. Those average service lives were based on actuarial studies and thoroughly examined by the PUC.

Although considered proprietary, Appendix A contains copies of this firm's original source data that include average service lives, as summarized in Schedule 2, for review by the Company and PUC Staff, with a request that they be treated as confidential property not to be distributed to any other party.

Analysis of Average Service Lives

Schedule 2 contains a compilation of the source data with respect to average service lives. It shows for each primary plant account the average service lives, the water utility and state in which it is located, along with the NARUC recommended average service lives, and PWW's average service lives. The average service lives for each utility and each NARUC publication were summarized to show the high, low and average of all examples, excluding PWW's. PWW's average service lives are considered the most relevant in this comparative analysis because they were based on comprehensive actuarial studies that were examined by the PUC, and because they relate to property that is in close proximity to PAC. Moreover, the maintenance, repair and asset management practices of PWW are the same for PAC, so that on a prospective basis several factors that affect the loss in value of assets will be similar. In addition, PWW and PAC operate in the same climate and are subject to the same regulatory requirements.

A review of Schedule 2 shows that of the 27 accounts for which PWW has average service lives, 7 are within 10% of the average of all other examples; and 9 are higher and 10 are lower than the average. Thus, PWW's average service lives lie in the middle of the data base. Accordingly, in my judgment using PWW's average service lives for those accounts that were considered and approved in the last rate case would be

the most appropriate recommendation. The accounts that were not addressed in PWW's last rate case include: Account 306–Lake & River Intakes, Account 308–Infiltration Galleries, Account 309–Supply Mains and Account 348–Other Miscellaneous Equipment. On the basis of judgment, considering the average of the examples on Schedule 2, I recommend the approximate average of the average service lives of 50, 45 and 70 years for accounts 306, 308 and 309, respectively, and 10 years for account 348 which is the average service life now used by PAC.

Net Salvage Values

Having selected the average service lives, the next step was to assign salvage values to each account. Because most of the recommended average service lives were those of PWW, the logical choice is to also use salvage values of PWW. It is noted that water utilities in the state of Illinois and the Illinois Commerce Commission have made the most progress in estimating net salvage values. The negative net salvage values reflect the high cost of removal for many accounts, as shown in the source data for Illinois in Appendix A. This observation is made to confirm that PWW's approved net salvage values are conservative and appropriate to use for this analysis.

Impact of Recommended Depreciation Rates

The selected average service lives and net salvage values produce the recommended rates as shown on Schedule 1. Schedule 3 has been prepared to show the difference between the application of the recommended and existing depreciation rates to PAC's plant balances as of December 31, 2007. The existing depreciation rates produce

a total annual depreciation expense in the amount of \$157,275 compared with the recommended depreciation rates that produce \$152,090. This \$5,185 reduction is minor. Note that the recommended depreciation rates include rates for accounts for which PAC currently has no investment, which provides for potential additions to those accounts in the future.

Reserve for Depreciation

As PAC experiences more retirements it will be able to make judgments as to the ongoing reasonableness of the recommended average service lives and depreciation rates. On a prospective basis, the recommended reduction in the annual depreciation will slightly reduce the annual accruals to the reserve for deprecation by only about 3%. Because of the lack of depreciation curves specific to PAC, any effort to determine a theoretical reserve would only produce an estimated result based on estimated depreciation curves, and would be a disproportionately costly and unnecessary effort. Accordingly, there is no need to make any other direct adjustment to the reserve for depreciation.

Conclusion

Although this comparative analysis is not as sophisticated or statistically accurate as an actuarial study, the data does provide information with which to make a valid judgment and produces reasonable depreciation rates. It certainly confirms that the use of PWW's depreciation rates for most accounts is not only reasonable but enables a consistent accounting between the two affiliated companies.

On the basis of the findings and analysis outlined in this report, it is recommended that the Company seek approval to implement the depreciation rates reflected in Schedule 1.

> Respectfully submitted, GUASTELLA ASSOCIATES, INC.

12 F. Guiellle

John F. Guastella President

Pittsfield Aqueduct Company

Schedule 1

Recommended Depreciation Rates

		Average	Net	Annual
		Service	Salvage	Depreciation
A/C No.	Description	Lives	Value	Rates
ę	Source of Supply & Pumping:			
304.1 \$	Structures & Improvements	48	-10.0%	2.30%
305.0 (Coll. & Impdg. Reservoirs	67	-20.0%	1.79%
306.0 L	_ake & River Intakes	50	-10.0%	2.20%
307.0 \	Wells & Springs	30		3.33%
308.0 I	nfiltration Galleries	45		2.22%
309.0 \$	Supply Mains	70	-10.0%	1.57%
304.2 \$	Structures & Improvements	45	-10.0%	2.44%
310.0 F	Power Generation Equipment	22		4.55%
311.2 E	Electric Pumping Equipment	25	-10.0%	4.40%
311.3 [Diesel Pumping Equipment	70	-10.0%	1.57%
311.6 (Other Pumping Equipment	30		3.33%
١	Nater Treatment Equipment:			
304.3 \$	Structures & Improvements	51	-10.0%	2.14%
320.0 F	Purification System Equipment	15		6.67%
320.2 \	Nater Treatment Equipment	36	-20.0%	3.31%
٦	Fransmission & Distribution Plant:			
304.5 \$	Structures & Improvements	35	-10.0%	3.14%
330.0 [Distr. Reserv. & Standpipes	50	-10.0%	2.18%
331.1 N	Mains - 6" & Larger	70	-10.0%	1.57%
331.2 1	Viains - 4'' & Under	40	-10.0%	2.75%
339.0 (Other Plant & Misc. Equipment	40		2.50%
333.1 \$	Services	45	-10.0%	2.44%
334.1 M	Veters & Installations	23	-10.0%	4.78%
335.0 I	Hydrants	49	-10.0%	2.24%
(General Plant:			
304.4 \$	Structures & Improvements	35	-10.0%	3.14%
	Office Furn. & Equipment	12	3.0%	8.08%
341.0 1	Transportaton Equipment	9	15.0%	9.44%
342.0 \$	Stores Equipment	25		4.00%
343.0 1	Tools, Shop & Garage Equipment	15		6.67%
	_aboratory Equipment	20		5.00%
	Power Operated Equipment	15	10.0%	6.00%
	Communications Equipment	19		5.26%
	Computer Equipment	7		14.29%
	Other Miscellaneous Equipment	10		10.00%

Pittsfield Aqueduct Company

Comparative Average Service Lives

Schedule 2

				Illino						NARL						New York		A	ll Example	s	Pennich
	N.J.	Del.		}	Illinois An		193	72	197		197	79	198	31]]	Util. & Ind.	Long				Wate
No. Description	E'town	Artesian	Kankakee	Candlewick	Company	CC Staff	low	high	low	high	iow	high	low	high	Citizen's	Merrick	Island	Low	High	Average	Work
Source of Supply & Pumping:																					
04.1 Structures & Improvements	65		30	30	30	30	25	50	35	40	35	40	35	40				25	65	37	
05.0 Coll. & Impdg. Reservoirs	60				50	50	35	75	50	75	50	75	50	75				35	75	59	
06.0 Lake & River Intakes	50		75		60	75	35	60	35	45	35	45	35	45				35	75	52	
07.0 Wells & Springs	45	45	60	60	35	60	25	50	25	35	25	35	25	35	45	35	50	25	60	41	
08.0 Infiltration Galleries	80								25	50	25	50	25	50				25	80	44	
09.0 Supply Mains	85	85			75	90			50	75	50	75	50	75				50	90	71	
04.2 Structures & Improvements	45	65	55	55	50	5 5			35	40	35	40	35	40	50	40	50	35	65	46	
10.0 Power Generation Equipment	25		30	30	25	30										30	40	25	40	30	
11.2 Electric Pumping Equipment	35	35	40	40	35	40			20	20	20	20	20	20	35	20	40	20	40	29	
11.3 Diesel Pumping Equipment	35				22	30			25	25	25	25	25	25	35	30	40	22	40	29	
11.6 Other Pumping Equipment Water Treatment Equipment:	35				20	20			25	25	25	25	25	25		30		20	35		
04.3 Structures & Improvements	35	55	45	45	40	45			35	40	35	40	35	40	50	40	50	35	55	42	
0.0 Purification System Equipment				35	35	35			20	35	20	35	20	35	15	15	25	15	35		
0.2 Water Treatment Equipment Transmission & Distribution Plant:	35	45	35	35	35	35	15	30	20	35	20	35	20	35	15	25	25	15	45		
14.5 Structures & Improvements	50			30					35	40	35	40	35	40				30	50	38	
0.0 Distr. Reserv. & Standpipes	75	80	60			60	25	60	30	60	30	60	30	60		55	75	25	80		
1.1 Mains - 6" & Larger	95	85	90	90	90	90	75		50	75	50	75	50	75		100	100	50	100		
1.2 Mains - 4" & Under							-						••		65			65	65		
9.0 Other Plant & Misc. Equipment																					
3.1 Services	45	35	60	60	60	60	35	50	30	50	30	50	30	50	50	45	65	30	65	47	
4.1 Meters & Installations	25	25	14			30	35	50	35	45	35	45	35	45		50	40	14	50		
5.0 Hydrants General Plant:	65	50	43			43	40	50	40	60	40	60	40	60		70	65	40	70		
4.4 Structures & Improvements	25	25	25	25	25	25			35	40	35	40	35	40	50	50	60	25	60	36	
0.0 Office Furn. & Equipment	15	30	19	19	20	19	15		20	25	20	25	20	25		30	30	15	30		
1.0 Transportaton Equipment	7	10	6	6	5	5	7		7		7	7	7	7	10		3	3	10		
2.0 Stores Equipment	20	30	29	29	20	29	15		20		20	20	20	20			45	15	45		
3.0 Tools, Shop & Garage Equipment	15	30	13			13	15		15	20	15	20	15	20		25	25	12	30		
4.0 Laboratory Equipment	30	9	20	20		20	15		15	20	15	20	15	20		20	30	9	30		
5.0 Power Operated Equipment	10	15	10			10	12		10	15	10	15	10	15			7	7	15		
6.0 Communications Equipment	15	15	8	8	8	8	10		10		10	10	10	10		15	10	5	15		
7.0 Computer Equipment	_	8		-	5	5	•								v		10	5	8	-	
48.0 Other Miscellaneous Equipment	25	20			15	15	15								20	25	25	15	25		

Schedule 3

Comparison of Depreciation Expense Under Present and Recommended Depreciation Rates

A/C No.					Annual Depreciation				
A/C No.		Balances	Pr	esent	Recom	mended			
	Description	at 12/31/07	Rate	Amount	Rate	Amount	Difference		
S	Source of Supply & Pumping:								
304.1 S	Structures & Improvements	\$981,131	1.33%	\$13,049	2.30%	\$22,531	\$9,482		
305.0 0	Coll. & Impdg. Reservoirs	48,493	1.47%	713	1.79%	869	156		
306.0 L	ake & River Intakes	29,050	2.00%	581	2.20%	639	58		
307.0 V	Vells & Springs	91,568	2.00%	1,831	3.33%				
308.0 h	nfiltration Galleries				2.22%				
	Supply Mains	70,046	1.32%	925	1.57%	1,101	176		
	Structures & Improvements				2.44%				
310.0 F	Power Generation Equipment	32,516	6.12%	1,990	4.55%				
	Electric Pumping Equipment	274,332	6.12%	16,789	4.40%	12,071	-4,719		
311.3 🛙	Diesel Pumping Equipment				1.57%				
	Other Pumping Equipment				3.33%				
	Nater Treatment Equipment:								
	Structures & Improvements	934,998	2.42%	22,627	2.14%	19,982	-2,644		
	Purification System Equipment	15,186	6.67%	1,013	6.67%				
	Nater Treatment Equipment	242,682	3.11%	7,547	3.31%	8,038	491		
	ransmission & Distribution Plant:								
304.5 \$	Structures & Improvements				3.14%				
	Distr. Reserv. & Standpipes	521,032	2.44%	12,713	2.18%				
	Mains - 6" & Larger	1,555,102	1.81%	28,147	1.57%	24,437	-3,710		
	Mains - 4" & Under	1,060,287	1.46%	15,480	2.75%	29,158	13,678		
	Other Plant & Misc. Equipment	8,857	5.63%	499	2.50%	221	-277		
	Services	260,923	2.33%	6,080	2.44%	6,378	299		
	Meters & Installations	305,585	5.00%	15,279	4.78%	14,615	-664		
	Hydrants	77,337	1.35%	1,044	2.24%	1.736	692		
	General Plant:			1,011		.,			
	Structures & Improvements				3,14%				
	Office Furn. & Equipment	2,689	5.00%	134	8.08%				
	Transportaton Equipment	1,000	0.0070	101	9.44%				
	Stores Equipment				4.00%				
	Tools, Shop & Garage Equipment	40,310	8.25%	3,326	6.67%	2,687	-638		
	_aboratory Equipment	3,939	5.00%	197	5.00%	197	000		
	Power Operated Equipment	0,000	0.0070	101	6.00%	107			
	Communications Equipment	44,990	5.00%	2,250	5.26%	2,368	118		
	Computer Equipment	26,292	14.29%	3,756	14.29%	3,756	0		
	Other Miscellaneous Equipment	13,055	10.00%	1,306	10.00%	1,306	0		
	Total Depreciable Property	\$6,640,400	10.0070	\$157,275	10.0070	\$152,090	-\$5,185		
I	otal Depresidule Froperty	ψ0,040,400		ψιψι,27J		₩102,000	ψυ ₁ 100		
301.0 0	Drganization	298,621							
	and and Land Rights	183,965							
	Fotal Utility Plant in Service	\$7,122,986		\$157,275		\$152,090	-\$5,185		

Note: Accounts 309.0, 331.1 and 331.2 reflect a reallocation as shown in Appendix B.

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Appendix A

ELIZABETHTOWN WATER COMPANY

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SUMMARY OF DEPRECIATION STUDY AND ANNUAL DEPRECIATION USING AVERAGE SERVICE LIFE FOR UTILITY PLANT IN SERVICE AS OF DECEMBER 31,1993

311 Supply Struct & Improv \$481,899 R2.5 66 0% 1.64% 7,41 312 Coil & Impound Reservoirs 1,420,005 R0.5 60 0% 1.67% 23,66 313 Lake, River & Other Intakes 300,511 S6.0 50 0% 2.22% 48,48 316 Supply Mains 1.187,545 R2.5 85 0% 1.18% 13,397 321 Pumping Struct & Improv 9,667,421 L4.0 45 ~10% 2.44% 236,31 323 Other Production Equip 3,601,644 S6.0 25 0% 2.46% 646,43 326 Diesel Pump Equip 4,249,348 R1.0 35 0% 2.86% 4,75 323 Wther Pump Equip 166,462 R2.5 35 0% 2.86% 4,76 324 Diesel Pump Equip 16,445 R2.0 35 -10% 3.14% 411,01 327 Water Treatment Equip 30,644,636 S1.0 35 -10% 3.14% 963,11 342 Dist Res & Standpipes </th <th>OCHV</th> <th>ICE LIFE FOR UTILITY PLA</th> <th></th> <th>NO OF DE</th> <th>****</th> <th>******</th> <th></th> <th>n e un anna an agus 1970 a na anna an bhliann baann an aige a ann an anna an air</th>	OCHV	ICE LIFE FOR UTILITY PLA		NO OF DE	****	******		n e un anna an agus 1970 a na anna an bhliann baann an aige a ann an anna an air				
Acc. P I a n t Balance Surviving Selected Curve Serv Net Salv Deprec Rate Annual Deprec. 303 Misc. Intangible Plant 179,194 65 0% 1.54% \$2,276 311 Supply Struct & Improv 3,44,499 R.2. 65 0% 1.54% \$2,278 312 Coll & Impound Reservoirs 1,420,005 R0.5 60 0% 1.67% \$2,30% 6,01 313 Lake, River & Other Intakes 300,511 S6.0 50 0% 1.25% 1,42 314 Wells & Springs 2,181,104 L0.0 45 -10% 2,24% 48,46 315 Infit Galleries & Tunnets 1,187,545 R2.5 55 0% 1,18% 13,37 321 Pumping Struct & Improv 9,667,421 L4.0 45 -10% 2,44% 28,664 44,006 144,06 322 Other Production Equip 2,265,052 R2.0 35 0% 2,86% 121,41 132				······	Avg							
No. A c c o u n f s Surviving Curve Life Salv Rate Deprec. 303 Misc. Intangible Plant 179,194 65 0% 1.54% \$2,76 311 Supply Struct & Improv \$481,899 F2.5 65 0% 1.67% \$23,66 312 Lako, Rivor & Other Intakes 300,511 56.0 0% 2.22% 48,46 315 Infilt Galleries & Tunnels 118,698 51.0 80 0% 1.25% 1,44,06 323 Query Mains 1,167,545 F2.5 85 0% 1.15% 1,387 321 Pumping Struct & Improv 9,667,421 L4.0 45 -10% 2.44% 226,631 323 Other Production Equip 2,262,052 F2.0 35 0% 2,86% 646,42 326 Diesel Pump Equip 166,462 R2.5 35 0% 2,86% 64,11,03 328 Other Pump Equip 30,644,636 S1.0 35 -10%												
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112 Coll & Impound Reservoirs 1,420,005 F0.5 60 0% 1.67% 23,66 313 Lake, River & Other Intakes 300,511 S6.0 50 0% 1.25% 6,10 314 Wells & Springs 2,181,104 L0.0 45 0% 2.22% 48,46 315 Infit Galleries & Tunnels 118,698 S1.0 80 0% 1.25% 1,48 312 Pumping Struct & Improv 9,667,421 L4.0 45 -10% 2.44% 236,31 323 Other Production Equip 3,601,644 S6.0 25 0% 2.46% 64,643 326 Diesel Pump Equip 4,249,348 R1.0 35 0% 2.86% 4,75 331 WT Struct & Improv 13,077,679 R2.0 35 -10% 3.14% 963,11 342 Distruct & Improv 3,400,533 S4.0 50 -10% 2.20% 74,81 342 Distruct & Improv 3,404,836 S1.0 35 -5% 1.11% 2,538,27 344 Fire Mains <td>311</td> <td>Supply Struct & Improv</td> <td>\$481,899</td> <td>R2.5</td> <td>65</td> <td>0%</td> <td>1.54%</td> <td>7,414</td>	311	Supply Struct & Improv	\$481,899	R2.5	65	0%	1.54%	7,414				
313 Lake, River & Other Intakes 300,511 S6.0 50 0% 2.00% 6,01 314 Wells & Springs 2,181,104 L0.0 45 0% 2.22% 48,48 316 Supply Mains 1,18,598 S1.0 80 0% 1.25% 1,48 313 Pumping Struct & Improv 9,667,421 L4.0 45 -10% 2.44% 236,31 323 Other Production Equip 3,601,644 S6.0 25 0% 4,00% 144,06 325 Diceel Pump Equip 22,625,052 R2.0 35 0% 2.86% 646,43 326 Diceel Pump Equip 166,462 R2.5 35 0% 2.86% 4,75 331 WT Struct & Improv 13,077,679 R2.0 35 -10% 3,14% 411,01 332 Water Treatment Equip 30,644,536 S1.0 35 -10% 3,14% 414,06 344 Fire Mains 119,253 L0.0 95 -5% 1,11% 2,538,27 344 Fire Mains 13,275,726	312	Coll & Impound Reservoirs	1,420,005	R0.5	60	0%	1.67%	23,667				
314 Wells & Springs 2,181,104 L0.0 45 0% 2,22% 48,48 315 Infilt Galleries & Tunnels 118,698 S1.0 80 0% 1,25% 1,48 316 Supply Mains 1,187,545 R2.5 85 0% 1.16% 13,97 321 Pumping Struct & Improv 9,667,421 L4.0 45 -10% 2,44% 236,31 323 Other Production Equip 3,601,644 86.0 25 0% 4,00% 144,06 325 Electric Pump Equip 22,625,052 R2.0 35 0% 2,86% 121,41 328 Other Pump Equip 166,462 R2.5 35 0% 2,86% 4,75 331 WT Struct & Improv 13,077,679 R2.0 35 -10% 3,14% 963,11 341 T&D Struct & Improv 3,400,533 S4.0 50 -10% 3,14% 963,28,72 343 Trans & Dist Mains 229,652,972 L0.0 95 -5% 1,11% 2,538,27 344 Fire Mains	313	Lake, River & Other Intakes	300,511	S6.0	50	0%		6,010				
315 Infit Galleries & Tunnels 118,698 51.0 80 0% 1.25% 1,48 316 Supply Mains 1,197,545 R2.5 85 0% 1.18% 13,97 321 Pumping Struct & Improv 9,667,421 L4.0 45 -10% 2.44% 236,31 323 Other Production Equip 3,601,644 S6.0 25 0% 4,00% 144,66 326 Diesel Pump Equip 4,249,348 R1.0 35 0% 2.86% 646,43 328 Other Pump Equip 4,249,348 R1.0 35 0% 2.86% 4,75 331 WT Struct & Improv 13,077,679 R2.0 35 -10% 3,14% 411,01 322 Water Treatment Equip 30,644,636 S1.0 35 -10% 2,20% 74,81 341 T&D Struct & Improv 3,400,533 S4.0 50 -10% 1,47% 196,69 342 Dist Res & Standpipes 13,424,844 R2.0 75 1,11% 1,31 343 Trans & Dist Mains 229,6	314	Wells & Springs	2,181,104	L0.0	45	0%	2.22%	48,469				
316 Supply Mains 1,167,545 R2.5 85 0% 1.16% 13,97 321 Pumping Struct & Improv 9,667,421 L4.0 45 ~10% 2.44% 236,31 323 Other Production Equip 3,601,644 S6.0 25 0% 4.00% 144,06 326 Diesel Pump Equip 22,625,052 R2.0 35 0% 2.86% 646,43 326 Other Pump Equip 166,462 R2.5 35 0% 2.86% 4,75 331 WT Struct & Improv 13,077,679 R2.0 35 ~10% 3.14% 963,11 332 Water Treatment Equip 30,644,636 S1.0 35 ~10% 2.0% 74,81 341 T&D Struct & Improv 3,400,533 S4.0 50 ~10% 1.47% 196,89 343 Trans & Dist Mains 229,652,972 L0.0 95 ~5% 1.11% 2,538,27 344 Fire Mains 119,253 L0.0 95 <td>315</td> <td>Infilt Galleries & Tunnels</td> <td>118,698</td> <td>S1.0</td> <td>80</td> <td>0%</td> <td></td> <td>1,484</td>	315	Infilt Galleries & Tunnels	118,698	S1.0	80	0%		1,484				
321 Pumping Struct & Improv 9,667,421 L4.0 45 10% 2.44% 236,31 323 Other Production Equip 3,601,644 \$60.0 25 0% 4,00% 144,06 325 Electric Pump Equip 2,265,052 F2.0 35 0% 2,86% 646,43 326 Diesel Pump Equip 4,249,348 F1.0 35 0% 2,86% 121,41 328 Other Pump Equip 166,462 F2.5 35 0% 2,86% 4,75 331 WT Struct & Improv 13,077,679 F2.0 35 -10% 3,14% 411,01 332 Water Treatment Equip 30,644,636 S1.0 35 -10% 2,14% 963,11 341 T&D Struct & Improv 3,400,533 S4.0 50 -10% 2,20% 74,81 342 Dist Res & Standpipes 13,424,844 F2.0 75 -10% 1,47% 196,89 344 Fire Mains 119,253 L0.0	316	Supply Mains	1,187,545	R2.5	85							
323 Other Production Equip 3,601,644 S6.0 25 0% 4.00% 144,06 325 Electric Pump Equip 22,625,052 R2.0 35 0% 2.86% 646,43 326 Diesel Pump Equip 4,249,348 R1.0 35 0% 2.86% 121,41 328 Other Pump Equip 166,462 R2.5 35 0% 2.86% 4,75 331 WT Struct & Improv 13,077,679 R2.0 35 -10% 3.14% 411,01 332 Water Treatment Equip 30,644,636 S1.0 35 -10% 3.14% 463,11 344 T&D Struct & Improv 3,400,533 S4.0 50 -10% 2.20% 74,81 342 Dist Res & Standpipes 13,424,844 R2.0 75 -10% 1.47% 196,89 343 Trans & Dist Mains 219,652,972 L0.0 95 -5% 1.11% 1.31 345 Services 40,482,996 R4.0 45 -50% 3.33% 1,349,43 344 Hydrants								101011				
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TOTAL \$418,733,114 2.05% \$8,584,54 Total Non-Depreciable 5.234,785 2.05% \$8,584,54	1	• •		1	1	1		-				
Total Non – Depreciable 5.234,785	388	Umer Tangible Ed	104,901	nu.5	20	056	4.00%	5,399				
Total Non - Depreciable 5.234,785							·····					
			· · · · · · · · · · · · · · · · · · ·				2.05%	\$8,584,546				
TOTAL \$423,967,899 2.02% \$8.554.54		Total Non-Depreciable	5.234,785					0				
		TOTAL	\$423,967,899			2 *	2.02%	\$8,584,546				

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ARTESIAN WATER COMPANY, INC.

SUMMARY OF DEPRECIATION STUDY AND ANNUAL DEPRECIATION USING AVERAGE SERVICE LIFE FOR UTILITY PLANT IN SERVICE AS OF JUNE 30, 1997

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	TOTAL	\$110,675,844				2.01%	\$2,226,152
398	Misc. & Other Equip	307,415	L0.5	20	0%	4.73%	14,52
397	Communication Eq	601,086		15	0%	6.30%	37,87
396	Power Operated Eq	711,162		15	10%	5.67%	40,33
395	Laboratory Equip	41,763		9	0%	10.50%	4,38
	Tools, Shop - Leasehold	108,809		30	0%	3.15%	3,42
394	Tools, Shop, & Garage Eq	211,392		30	0%	3,15%	6,661
393	Stores Equip	20,128		30	0%	3.15%	63
392	Transportation Equip	1,643,391	L0.5	10	10%	8.51%	139,810
391.5	Computer Mainframe	77,508	remaining	3.25	0%	10.28%	7,96
391.4	Computer Software	507,801		5	0%	18.91%	96,00
391.2	Computer Equipment	664,265		8	0%	11.82%	78,48
391.1	Office Equipment	314,853		20	0%	4.73%	14,88
391	Office Furniture	471,581	{	30	0%	3.15%	14,85
390.1	Leasehold	2,024,933		25	-10%	4.16%	84,22
390	Struct & Improv	200,646	R3.0	25	-10%	4.16%	8,34
348	Hydrants	3,566,385	S5.0	60	0%	1.58%	56,18
346	Meters	6,202,529		25	4%	3.63%	225,14
345.1	Temporary Services		S3.0				
345	Services	10,358,829		35	-10%	2.97%	307,74
343	Trans & Dist Mains	62,203,900	1.2.0	85	-5%	1.17%	726,34
342	Dist Res & Standpipes	7,524,034		80	-5%	1.24%	93,34
332	Water Treatment Equip	1,094,823	R2.5	45	0%	2.10%	22,99
331	WT Struct & Improv	4,039,979	R3.0	55	-10%	1.89%	76,37
325	Electric Pump Equip	2,639,531	}	35	0%	2.70%	71,28
321	Pumping Struct & Improv	1,598,354	R1.0	65	-5%	1.53%	24,40
316	Supply Mains	451,838	SC	85	0%	1.11%	5,02
314.1	Monitoring Wells	101,180		45	0%	2.10%	2,12
314	Wells & Springs	2,986,836		45	0%	2.10%	62,74
No.	Accounts	06/30/97	Curve	Life	Salv	Rate	Deprec.
Aca.	Plant	Surviving at	Selected	Serv	Net	Deprec.	Annuai
	Depreciable	Balance		Avg			
		Ending	,		Uepreci	ation Study	· ····

JUNDUMENO ILLUNIO YVALER GUNDANI Rate Case Docket No. 95-0000 cankakee Water District

For the Twelve Months Ending December 31, 1994 and Pro Forma Annual Depreciation & Accrual Rates by Account

Schedule B-3.2 Payorel Witness Responsible:

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Data: (12) Months Actual and (0) Months Estimated Type of Filling (X)Original ()Updated ()Revised

а # J.F.Guastella Fonn Curve Ê Average 9.8 0 0 0 0 0 7 မာမ္က ရုစ္စစ္လင္ရပ္ရွင္း 80 00 Service 2 9 -25.00% 0.00% 100.00% 10.00% 5.00% 0.00% 0,00% 0.00% -25.00% -25.00% -25.00% 14 00% 0.00% 30.00% 5,00% -10.00% 0.00% -70.00% 25 00% -25.00% 100.00% -70.00% 50.00% Net Salvage Percentage ú. Catculated \$975,349 137,502 39,679 90,604 3 13,226 18,120 3,930 35,453 4,342 24,326 11,713 8,236 182,102 86,367 169 5,761 \$151 2,682 51,532 58,271 51,631 270.080 150 Depreciation Expense ŵ 10.77% 3.28% 7.31% 5.00% 3,06% 1.89% 4.00% 4 74% 2.50% 47% 2.27% 2.73% 1.83% 3.33% 4,44% 3.95% 5.00% 4.17% 1.67% 3.30% 3.13% 3.57% 4 17% 1.67% 6.21% Accruai Rale 0 515,995 249,557 405,175 453,010 479,393 \$31,064,618 1,453,435 2,537,934 5,772 85,844 15,219 194,605 7,275,225 94,757 9,879 88,394 14,289,958 475,226 (34,998 3,617 ₽<u>1</u>6'8 791,970 5,468,532 390,773 (,150,631 Jurisdictional Investment Plant 0 **Distribution Reservoirs and Standpipes** Transmission & Distribution Plant ools, Shop and Garage Equipment Water Treatment Plant Source of Supply Plant Office Furniture and Equipment Account Description Lake, River and Other Intakes Structures and Improvements Structures and improvements Structures and improvements Power Generating Equipment Shuctures and improvements Structures and Improvements Water Treatment Equipment ower Operated Equipment Pumping Plant General Plant Communication Equipment **Fransportation Equipment** Electric Pump Equipment -aboratory Equipment Ð Wells and Springs Meter Installations Stores Equipment **Aydrants** Services Sublotal Vieters Vains CINC CINC Related Working Papers Account 34460 34560 34560 Number 30420 30420 30420 31030 33550 34160 34360 31130 30450 33050 33150 33450 33450 34060 34260 30430 30440 32040 33350 30460 \leq line. ŝ

Docket No. 20-153 Exhibit 1 Page

\$837,847

\$24,589,393

Pro Forma Jurisdictional

Depreciation Expense

Depreciation Study - Summary of Recommendations

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		nagenen in den eine eine eine eine eine ein	Average :	Service Life	Deprecia	tion Rates
Line	Account		Comparative	1	Comparative	
No.	Number	Account Description	Range	Recommended	Range	Recommended
	(A)	(B)	(C)	(P)	(E)	(F)
1		Source of Supply Plant				
2	30420	Structures and Improvements	25-75	30	1.33-2.92%	4.17%
3	30420	Lake, River and Other Intakes	16-75	75	1.33-6.35%	1,47%
4	30420	Wells and Sorings	22-45	60	2.44-4.50%	1.67%
5				-		
6		Pumping Plant		-		
7	30430	Structures and Improvements	28-60	55	1.87-3.55%	2.27%
8	31030	Power Generating Equipment	16-40	30	2.43-6.32%	3.30%
9	31130	Electric Pump Equipment	17-43	40	2.33-5.87%	3.13%
10	Q , (Q)0		;			
11		Water Treatment Plant	2			
12	30440	Structures and Improvements	34-66	45	1.51-2.94%	2.73%
13	32040	Water Treatment Equipment	26-62	35	1.62-5.12%	3.57%
14						
15		Transmission & Distribution Plan:				1
16	30450	Structures and Improvements	25-75	30	1.33-2.92%	4,17%
17	33050	Distribution Reservoirs and Standpipes	44-75	60	1.54-2.92%	1.67%
18	33150	Mains	49-106	90	0.96-2.33%	1.89%
19	33350	Services	34-45	60	2.20-3.33%	3.33%
20	33450	Meters (1)	23-61	14	1.62-4.33%	6.21%
21	33450	Meter Installations	23-61	45	1.62-4.33%	4,44%
22	33550	Hydrants	27-75	43	1.37-3.70%	3.95%
23		*	-			
24		General Plant				
25	30460	Structures and Improvements	26-55	25		4.00%
26	34060	Office Furniture and Equipment	5-23	19 (4.74%
27	34160	Transportation Equipment	6-8	6	12.50-16.98%	10.77%
28	34260	Stores Equipment	15-46	29	2.16-7.01%	3.28%
29	34360	Tools, Shop and Garage Equipment	14-32	13	3.17-6.08%	7.31%
30	34460	Laboratory Equipment	10-25	20	4.00-9.44%	5.00%
31	34560	Power Operated Equipment	7-25	10		5.00%
32	34660	Communication Equipment	5-17	8 :	5.88-19.89%	12.50%

(1) Recommended figures reflect an average of different types within the account.

Pro Forma Depreciation Expense Calculation

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ne	Account		Ave. Future Test Year	Recomm Depred		Percentage	Averag Servic
0.	Number	Account Description	Depreciable Plant	Rate	Expense	Net Salvage	Life
ŕ		Intangible Plant				1	Ja. 119
1	30115	Organization	\$O	-	\$0	e e e	-
2:	30215	Franchises & Consents	0	*	0	•	*
् 4		Source of Supply Plant					
5	30325	Land and Land Rights	0	-	0		-
6	30425	Structures and Improvements	25,819	4.17%	1,077		
71	30725	Wells and Springs	321,887	1.67%	5,376	0.00%	
8	30925	Supply Mains	21,783	1.89%	412	-70.00%	
91 01		Pumping Plant		1			
1	30435	Structures and Improvements	1,335	2.78%	37	-25.00%	
2	31030	Power Generation Equipment	90,000	3.33%	2,997	0.00%	
3	31135	Electric Pump Equipment	130,662	3,13%	4,090	-25.00%	
4 5		Water Treatment Plant					
6	30445	Structures and Improvements	588,000	2.78%	16,346	-25.00%	
7	32045	Water Treatment Equipment	355,106	3.57%	12,677	-25.00%	
8		Transmission & Distribution Plant					
0	33055	Distribution Reservoirs and Standpipes	193,767	1.67%	3,236	0.00%	
1	33155	Mains	423,347	1,89%	8,001	-70.00%	
21	33355	Services	808,892	3.33%	26,936		
3	33455	Meters	122,074	6.14%	7,495		
4	33455	Meter Installations	55,671	4.44%	2,467		
ទ	33555	Hydrants	44,713	3.95%	1,766		
6 7		General Plant					
8	30365	Land and Land Rights	0	**	0	-	-
9 i	30465	Structures and Improvements	0	5.00%	õ		
0Ì	34065	Office Furniture and Equipment	34,538	4,74%	1.637		
1	34165	Transportation Equipment	72,834	11.67%	8.500		
2	34165	Tools, Shop and Garage Equipment	56,087	7.31%	4,100		
	34365	Laboratory Equipment	5,876	5.00%	-,100		
3	34665	Communication Equipment	38,092	12.50%	4,762		
5	34765 34765	Miscellaneous Equipment	1,074	6.67%	72		
6 7		Subtotal	3,391,457	3.31%	112,278	, } }	
81		CIAC	(421,264)	1.89%	(7,962)		
â l		Other	9.0991	1.89%	172		
10 i 11 i		Total	\$2,979,292	3.51%	\$104,488		

		жи К	COMPANT	5	5:25	Car color to D
		AVERAGE		**************************************		SMER
ACCOUNT	ACCOMPT	SERVICE	SALVAGE	SERVICE	SALVAGE	Dertected
K, MBER	ALL A	ء م ع اللغ اللغ السي السي الم السي الم الم الم الم الم الم الم الم الم الم	PERCENT (X)	م د الله الله الله الله الله الله الله ال	PERCENT (X)	12010
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311.00	SS Structures 4. Exprovements	20	× 52 ·	30	~25X	in the second
312.00	Collecting and Ispounding Reservoirs	50	Ko	50	K	n ¹ K
313,00	lake, River 2 Other intakes	\$3	¥52 ·	ĸ	X01-	1.4.1
314.20	wells \$ Springs	35	8	6.0	5	1. 6 %
316.00	Stroly Maira	r	X01 *	8	-101	1.22
317,00	Other Water Source Plant	Ð	22	0	ž	
**	EQUIPHENT					
321.00	Pumpling Structures & Improvements	50	- 25%	55	- 25%	2.2.2
323.20	Other Power Production Equipment	25	*5*	30	8	^b r V
325.00	Electric Pumping Equipment	35	-254	0,	\$\$2*	3, 12
326.03	ülesel Pumping Equipment	22	r.	2	ö	A A A
328.00	Cther Purping Equipment	0	t	20	01	s G
152 121	WATER IREATMENT PLANT					ου [^ ς
331.00	WI Structures & Improvements	0.4	-25%	45	-25X	. \ \$
332.00	Water Trestment Equipment	35	ESS-	35	-25X	F. F. 5
S SHSXY	TRANSHISSION & DISTRIBUTION PLANT					
342.00	Dist. Reservoirs & Standpipes	50	ę	3	žo	
343.00	Trens. 4 Dist. Mains	8	×07 -	81	102 ·	1.89
345.00	Services	63	2002-	3	· 1001	M M M
346,00	Melers ~ Melai	0	Ř	30	202	2,47
346.00	Xeters - Piberiic	ç	ц С	10	IJ	°.0,
347.00	Xeter Installations	0,4	2002-	45	- 1001	5 13 · No
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		AVERAGE	6 6 8 9 (12) 7 (22) 8 8 9 1 1 9	AVERAGE	+ + + + + + + + + + + + + + + + + + +	よたい
ACCONT	ACCOUNT	SERVICE	SALVAGE	SERVICE	SALVAGE	CERTECTION TO A
R. F.	8 8 9 9 8 8 8 8 1 9 8 1 9 8 1 9 8 1 9 9 9 9		PERCENT (I)	5 543 5 544 5 545 5 545 5 5 5 5	PERCENT (X)	Res 12
ñ.						4
390.10 Office Structures		25	22	25	0X	e F
390.20 Stores, Shop & Garage Structures	ge structures	25	101	23	CX CX	76.0
	l mprovenent s	25	101.	25	R	مېر م
	Equipment	20	104	\$	101	オム・オイ
		ŝ	101	ŧζì	101	0°.0
	ent	01	101	10	- 101	0.11
391.23 Computer Programs		ŝ	20	۲۸	¥ €	×0.0
392,11 Transportation Equip	prent - Heavy Iruck	ŝ	40X	n	107	12.0
392.12 Transportation Equipment ~ Light Truck	ment - Light Trock	t.	302	6.5	NON	10.01
392.20 Transportation Equip	process - Cart	vr	35X	<i>ي.</i> 5	358	19.2
392.30 Iransportation Equipment - Other	ment - Other	10	X	ç	M O	, 0, 0 , , , 0
393.00 Stores Equipment		20	ĸ	\$	H K	v, 3 4 1
	e Equipment	12	5%	*	5 8	1 - 2 - 1 - 1
		15	N OX	20	RO	> ^
	Streets \$	01	50X	10	1100 1	51
397.00 Commication Equipment	tero t	4 3	20	80	0X	
395.00 Aiscellaneous Equipment	went	25	1 0	15	Xa	6.67
EXTANGEBLE PLANT						
331.00 Organization		0	10	o	ĸ	
		0	20	0	ų	
		0	X3	C	X0	

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CONSUMERS ILLINOIS WATER COMPANY

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Schedule 5.01

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Docket No. 20 153 1.00 Exhibit 1 Page 6 Page 6

Small Water Utilit:						RAK 2.
2014 100	*		uggested			Page 4
• •			Average ice Life			
 : <u>Class of Plant</u> .		261.5	ace mic		•	
Source of Water Plant						
Structures and Improvements					·	
Wood Frame'			30			*
Steel			40			
Cement Block Reinforced Concrete or Brick			40 50			
Miscellaneous			25			
Collecting and Impounding Reservoirs			ي الرم الملك			
Wood Structures	· .	,	35			
Earth Fill Structures			60			
Concrete Structures			· 75			·
Lake, River and Other Intakes						
Wood Structures			35 60			
Concrete Structures Springs and Tunnels			30-50			
Wells			25-50			•
Mains		A		44.4.		
• (main mining the	ļ	Over 64	4"-6"	Under 4"	*	
Cast Iron	× ب	75	60	***		
Asbestos Cement		60	60			
Steel, Cement Lined	, .	50 -	50			
Concrete		50	50			
Other		45	40	25.		
Other Source of Supply Plant		25			,	
Pumping Equipment		•	20-30	•		
Other Pumping Plant	•		10-25	•	,	
Water Treatment Equipment Chlorinators		۰.	15-30			
Other	*		25-35			
Reservoirs and Tanks						
Earth			50			
Concrete ·			60			
Steel	•		50 40			
Redwood.		•	40			,
Miscellaneous Services			في عدة			
Galvanized .			35			
Copper			50	•		
Maters			35-50			
Meter Installations			35			
Kydrants			40			
Wherf			40 50			
Standard Office Furniture and Equipment			50 15			
Transportation Equipment						
Stores Equipment			15			
Laboratory Equipment			15		`	
Communication Equipment			J.O			
Power Operating Equipment			<u>12</u> 15			
Tools, Shop and Garage Equiptent			15			
Other General Plant			15 مەروم ، مە			

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APPENDIX C Fage 1 of 2

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TOPICAL AVERAGE SERVICE ALVES, SALVACE RATES, AND DEFRECTATION RATES

SALL WATER UTILITIES

Acct.,				:Depreciation
		lignad :	Salvage	Eata
No.:	Class of Plant : Source of Supply Plant	Teers :	rercent	: Percent
	Structures and Improvements	25-40	•	2.9-2.5
312	Collecting & Impounding Reservoird	50-75		2.0-1.3
3 <u>1</u> 3	Lake, River and Other Intakes	35-45		2.9-2.2 .
314	Wells and Springs	25-35		4.0-2.9
315	Galleries and Tunnels	25-50		1.0-2.0
316	Supply Mains	50-75		2.0-1.3
317	Other Source of Water Supply Plant	: 30-40		3.3-2.5
	<u>Fussing Plant</u> Structures and Laprovements	35-40		2.9-2.5
324-7	Pumping Louipment	20		5.0
328	Other Fumping Plant	25		4.0
531	<u>Mater Treatment Plant</u> Structures and Improvements Water Treatment Equipment	35—110 29—35		2.9-2.5
341	Transmission and Distribution Pla Structures and Improvements Reservoirs and Tanks	nt 35-40 30-60		2.9-2.5 3.3-1.7
343	Transmission and Distribution Mai	ns 50-75		2.0-1.3
344	Fire Meins	50-75		2.0-1.3
345	Services	<u>3</u> 2-50		3.3-2.0
3.6	Neters	35-45	10	2.5-2.0

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FIGURE 1

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Typical Average Service Lives, Salvage Rates, and Depreciation Rates

Small Water Utilities

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NARUC Account Number	Class of Plant	Average Service Life <u>a/</u> Years	Net Salvage Percent	Depreciation Rate Percenc
9	Source of Supply Plant	ŢŦŢŢŢŢŢŢŢŢĬŎŎĬŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎ	۵۳۵٬۵۵۹ - ۲۰۰۰ میروند را به میگرد. ۱۹۹۵ - ۱۹۹۵ - ۱۹۹۵ - ۱۹۹۵ - ۱۹۹۵ - ۱۹۹۵ - ۱۹۹۵ - ۱۹۹۵ - ۱۹۹۵ - ۱۹۹۵ - ۱۹۹۵ - ۱۹۹۵ - ۱۹۹۵ - ۱۹۹۵ - ۱۹۹۵ - ۱۹۹۵	na marta na sala da sa sala sa
311 312 313 314 315 316 317	Structures and Improvements Collecting & Impounding Reservoirs Lake, River and Other Intakes Wells and Springs Galleries and Tunnels Supply Mains Other Source of Water Supply Plant	35-40 50-75 35-45 25-35 25-50 50-75 30-40		2.9-2.5 2.0-1.3 2.9-2.2 4.0-2.9 4.0-2.0 2.0-1.3 3.3-2.5
	Pumping Plant			
321 324-7 328	Structures and Improvements Pumping Equipment Other Pumping Plant	35-40 20 25 (• ,	2.9-2.5 5.0 4.0
2 20	Water Treatment Plant			• •
331 332	Structures and Improvements Water Treatment Equipment	35-40 20-35		2.9-2.5 5.0-2.9
	Transmission and Distribution Plant			
341 342 343 344 345 346 346 347 348	Structures and Improvements Reservoirs and Tanks Transmission and Distribution Mains Fire Mains Services Meters Meter Installations Hydrants	35-40 30-60 50-75 50-75 30-50 35-45 40-50 40-60	10 5	2.9-2.5 3.3-1.7 2.0-1.3 2.0-1.3 3.3-2.0 2.6-2.0 2.5-2.0 2.4-1.6
	<u>General Plant</u>			
390 391 392 393 394 395 395 395	Structures & Improvements Office Furniture and Equipment Transportation Equipment Stores Equipment Tools, Shop & Garage Equipment Laboratory Equipment Power Operated Equipment Communication Equipment	35-40 20-25 7 20 15-20 15-20 15-20 10-15 10	5 10 5. 10 10	2.9-2.5 4.8-3.8 12.9 5.0 5.3-4.8 6.7-5.0 9.0-5.0 9.0

<u>a/</u> These lives are intended as a guide; longer or shorter lives should be used where conditions warrant.

Docket No. 20-153 Exhibit 1

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NARUC 1981

Typical Average Service Lives, Salvage Rates, and Depreciation Rates , **,**

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RAK 2.00 Page 1

Small Water Utilities ×

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RUC.		Average Service Life	Net Salvage	Depreciatio Rate
aber	Class of Plant	Years	Percent	Percent
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11 12 13 14 15 15 15 15	Structures and Improvements Collecting & Impounding Reservoirs Lake, River and Other Intakes Wells and Springs Galleries and Tunnels Supply Mains Other Source of Water Supply Plant	35-40 50-75 35-45 25-35 25-50 50-75 30-40		2.9-2.5 2.0-1.3 2.9-2.2 4.0-2.9 4.0-2.0 2.0-1.3 3.3-2.5
·	Pumping Plant	м 	•	•
21 24-7 28	Structures and Improvements Pumping Equipment Other Pumping Plant	35-40 20 25	•	2.9-2.5 5.0 4.0
×	Water Treatment Plant	· • •	•	•
31 32	Structures and Improvements Water Treatment Equipment	35-40 • 20-35	• # • • • • •	2.9-2.5
	Transmission and Distribution Plant			*
41 42 43 44 45 45 45 45 45 45 45 45	Structures and Improvements Reservoirs and Tanks Transmission and Distribution Mains Fire Mains, Services Meters Meter Installations Hydrants	35-40 30-60 50-75 50-75 30-50 35-45 40-50 40-60	··· 10	2.9-2.5 3.3-1.7 2.0-1.3 2.0-1.3 3.3-2.0 2.5-2.0 2.5-2.0 2.4-1.6
•• • •	General Plant			
90 91 92 93 93 94 95 95 95	Structures & Improvements Office Furniture and Equipment Transportation Equipment Stores Equipment Tools, Shop & Garage Equipment Laboratory Equipment Power Operated Equipment Communication Equipment	35-40 20-25 7 20 15-20 15-20 10-15 10	5 5 	2.9-2.5

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	RESERVE DECENBER	Net Salvage	100	001	00000	a	c) in	000000		
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Docket No. 20-153

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TABLE I

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LONG ISLAND WATER CORPORATION

COMPARISON OF NET SALVAGE VALUES

		Net Salvage	e Percent
	Account	Historical(1)	Current (
224	Caminan & Malla		
314	Springs & Wells Common-Suction (Shellow)	(15.56)	0.0
	Layne & Lauman (Deep)	(35.99)	0.0
321	Power & Pumping Structures	(10.46)	0.0
- 144 - 171	Other Power Production Equipment	(2,79)	0.0
325	Electric	(22.01)	5.0
326	Diesel Pumping Equipment	1.77	5.0
331	Water Treatment Structures	(75.22)	0.0
332	Water Treatment Equipment:	()))	0.0
and and an	Filters & Yard Piping	(17.19)	0.0
	Chemical Feeders	(7.24)	25.0
342	Distribution Reservoirs & Stand-		
	pípes:		
	Ground Scorage	(30,42)	0.0
	Elevated Tanks	(83.06)	0.0
343	Transmission & Distribution Mains	(5.71)	0.0
345	Services	(286.00)	0.0
	Meters	43.22	0.0
	Hydrants	(74.62)	0.0
	Fire Services	(25.68)	0.0
390	General Structures:	(F. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.	~ ~
	Office	(53.32)	0.0
	Garage	(50,52)	0.0
391	Office Furniture & Equipment:	(0 CON	c A
	Office Furniture & Equipment	(`0.53) 5.40	5.0 5.0
200	Office Machines		30.0
392	Transportation Equipment	5.40 36.14 _(3)	5.0
393	Stores Equipment Tools, Shop & Garage Equipment;		
394	Shop & Garage	0.67	5.0
	Tools & Work	4.17	20.0
395	Laboratory Equipment	0.00	5.0
396	Power-Operated Equipment:		with the
220	Compressors	10.63	20.0
	Diggers (Backhoes)	36,21	29.0
397	Communication Equipment	6.85	10.0
398	Miscellaneous Equipment	0.00	5.0

Notes:

(1) Based on retirement history 1975 through 1964.
(2) Included in current annual depreciation fates.
(3) No retirements 1975 - 1984.
() Denotes negative percent net salvage. Based on retirement history 1975 through 1984.

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LONG ISLAND WATER CORPORATION

COMPARISON OF AVERAGE SERVICE LIVES IN YEARS

Maria and a state of the state	Account	Current	Recommended
314	Springs & Wells:		
	Common-Succion (Shallow)	30	25
	Layne & Lauman (Deep)	50	50
321	Power & Pumping Structures:	<i></i>	20
	Main Station	50	LS 2010(1)
	Others	50	50
323	Power Production Equipment	25	40
325	Electric Pumping Equipment	35	40
326	Diesel Pumping Equipment	35	40
331	Water Treatment Structures	50	LS 2010(1)
332	Water Treatment Equipment:		
	Fílters & Yard Piping	60	75
	Chemical Feeders	20	25
0.2	Transmission & Distribution Rights		
	of Way	100	100
342	Distribution Reservoirs & Standpipes:		
	Storage Basins	75	LS 2010(1)
	Ground Storage Tanks	75	75
	Elevated Tank	9 ⁵⁵ .8(2)	$LS 2000^{(1)}$
343	Transmission & Distribution Mains		100
345	Services	50	65
346	Meters	40	40
348	Hydrants	70 50	65
349	Fire Services	00	65
390	General Structures:	60	LS $2020(\frac{1}{2})$
	Office	35	LS 2010(1)
391	Garage Office Furniture & Equipment:	- L - L	۲ کیل است است سیست
475	Office Furniture & Equipment	2.5	30
	Office Machines	20	20
392	Transportation Equipment	3	3(3)
393	Stores' Equipment	25	45
394	Tools, Shop & Garage Equipment:		
<i>37</i> 4	Shop & Garage	2.5	25
	Tools & Work	20	25
395	Laboratory Equipment	25	30
396	Power-Operated Equipment:		
	Compressors	15	7(3)
	Diggers (Backhoes)	ò	7(3)
397	Communication Equipment	10	10(3)
398	Miscellaneous Equipment	15	25
	···· 6		
Νοτε			
(]	.) Life Span. Service life equals age	plus remainí	ng life.
	2) Composite	200 200	
ſ	1) Programmed replacement period.	and a set	

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Appendix B

Pittsfield Aqueduct Company

Appendix B

Allocation of Cost of Supply Mains, Mains 6" and Larger and Less Than 6" As of December 31, 2007

	Diameter (Inches)	Footage	Inch-Feet	Cost per Inch-Foot (a)	Estimated Cost	Allocated Book Cost
		10000.30				
	1					
	1.25	1,798	2,248	\$3.50	\$7,866	\$6,440
	1.50	3,837	5,756	3.50	20,144	16,492
	2	85,201	170,402	3.50	596,407	488,267
	3	4,220	12,660	3.50	44,310	36,276
	4	44,742	178,968	3.50	626,388	512,812
Supply Mains	6	3,565	21,390	4.00	85,560	70,046
	6	31,349	188,094	4.00	752,376	615,956
	8	29,811	238,488	4.00	953,952	780,983
	10	1,717	17,170	4.00	68,680	56,227
	12	2,594	31,128	4.00	124,512	101,936
	Total	208,834	866,303		\$ 3,280,196	\$ 2,685,436
		Total Under	6"		:	\$1,060,287
		Total 6" and	Larger			\$1,555,102
		Supply Mair	าร			\$70,046

Note (a): Represents a relative cost per foot for the purpose of allocating original costs, not for a market value determination.

TAB 28

1604.01(a)(13) Management and Financial Audits if not previously filed in an adjudicative proceeding.

Such Audits are conducted annually at the parent level and every three years at the subsidiary level if loans exist. Please see the most recent audit citing PAC's NHDES loan.

Pennichuck Water Works, Inc.

Management and Financial Audits

Provided pursuant to NHPUC Rule 1604.01(13)

Pennichuck Corporation and Subsidiaries

Independent Auditors' Reports Pursuant to Governmental Auditing Standards and Uniform Guidance

For the Year Ended December 31, 2017

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Docket No. 20-153 Exhibit 1



121 River Front Drive Manchester, NH 03102 (603)669-6130 melansonheath.com

Additional Offices:

Nashua, NH Andover, MA Greenfield, MA Ellsworth, ME

OPINION ON THE FINANCIAL STATEMENT OF A FEDERAL PROGRAM WHEN USING THE PROGRAM-SPECIFIC AUDIT OPTION TO SATISFY THE UNIFORM GUIDANCE AUDIT REQUIREMENTS

Independent Auditors' Report

Board of Directors and Stockholder Pennichuck Corporation and Subsidiaries

Report on Schedule of Expenditures of Federal Awards

We have audited the accompanying schedule of expenditures of federal awards for the Capitalization Grants for Drinking Water State Revolving Loan Funds – Loan Program (Federal CFDA Number 66.468) of Pennichuck Corporation and Subsidiaries for the year ended December 31, 2017.

Management's Responsibility

Management is responsible for the preparation and fair presentation of the financial statement of the program in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of a financial statement that is free from material misstatement, whether due to fraud or error.

Auditors' Responsibility

Our responsibility is to express an opinion on the financial statement of the program based on our audit.

We conducted our audit in accordance with auditing standards generally accepted in the United States of America; the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States; and the audit requirements of Title 2 U.S. *Code of Federal Regulations* (CFR) Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance). Those standards and the Uniform Guidance require that we plan and perform the audit to obtain reasonable assurance about whether the financial statement is free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statement. The procedures selected depend on the auditors' judgment, including the assessment of the risks of material misstatement of the financial statement, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statement in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statement.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Opinion

In our opinion, the schedule of expenditures of federal awards referred to above presents fairly, in all material respects, the expenditures of federal awards under the Capitalization Grants for Drinking Water State Revolving Loan Funds – Loan Program (Federal CFDA Number 66.468) in accordance with accounting principles generally accepted in the United States of America.

Melanson Heath

September 27, 2018

Docket No. 20-153 Exhibit 1



121 River Front Drive Manchester, NH 03102 (603)669-6130 melansonheath.com

Additional Offices:

Nashua, NH Andover, MA Greenfield, MA Ellsworth, ME

REPORT ON COMPLIANCE FOR A FEDERAL PROGRAM AND REPORT ON INTERNAL CONTROL OVER COMPLIANCE WHEN USING THE PROGRAM-SPECIFIC AUDIT OPTION TO SATISFY THE UNIFORM GUIDANCE AUDIT REQUIREMENTS

Independent Auditors' Report

Board of Directors and Stockholder Pennichuck Corporation and Subsidiaries

Report on Compliance for Capitalization Grants for Drinking Water State Revolving Loan Funds – Loan Program (Federal CFDA Number 66.468)

We have audited the compliance of Pennichuck Corporation and Subsidiaries with the types of compliance requirements described in the *U.S. Office of Management and Budget (OMB) Compliance Supplement* that could have a direct and material effect on its Capitalization Grants for Drinking Water State Revolving Loan Funds – Loan Program (Federal CFDA Number 66.468) for the year ended December 31, 2017.

Management's Responsibility

Management is responsible for compliance with the requirements of laws, regulations, contracts, and grants applicable to Capitalization for Drinking Water State Revolving Loan Funds – Loan Program (Federal CFDA Number 66.468).

Auditors' Responsibility

Our responsibility is to express an opinion on compliance for Pennichuck Corporation and Subsidiaries' Capitalization for Drinking Water State Revolving Loan Funds – Loan Program (Federal CFDA Number 66.468) based on our audit of the types of compliance requirements referred to above. We conducted our audit of compliance in accordance with auditing standards generally accepted in the United States of America; the standards applicable to financial audits contained in *Government Auditing Standards,* issued by the Comptroller General of the United States; and the audit requirements of Title 2 U.S. *Code of Federal Regulations* (CFR) Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance). Those standards and the Uniform Guidance require that we plan and perform the audit to obtain reasonable assurance about whether noncompliance with the types of compliance requirements referred to above that could have a direct and material effect on Capitalization for Drinking Water State Revolving Loan Funds – Loan Program (Federal CFDA Number 66.468) occurred. An audit includes examining, on a test basis, evidence about Pennichuck Corporation and Subsidiaries' compliance with those requirements and performing such other procedures as we considered necessary in the circumstances.

We believe that our audit provides a reasonable basis for our opinion on compliance for Pennichuck Corporation and Subsidiaries' Capitalization for Drinking Water State Revolving Loan Funds – Loan Program (Federal CFDA Number 66.468). However, our audit does not provide a legal determination of Pennichuck Corporation and Subsidiaries' compliance.

Opinion

In our opinion, Pennichuck Corporation and Subsidiaries complied, in all material respects, with the compliance requirements referred to above that could have a direct and material effect on its Capitalization for Drinking Water State Revolving Loan Funds – Loan Program (Federal CFDA Number 66.468) for the year ended December 31, 2017.

Report on Internal Control over Compliance

Management of Pennichuck Corporation and Subsidiaries is responsible for establishing and maintaining effective internal control over compliance with the types of compliance requirements referred to above. In planning and performing our audit of compliance, we considered Pennichuck Corporation and Subsidiaries' internal control over compliance with the types of requirements that could have a direct and material effect on its Capitalization for Drinking Water State Revolving Loan Funds – Loan Program (Federal CFDA Number 66.468) to determine the auditing procedures that are appropriate in the circumstances for the purpose of expressing an opinion on compliance and to test and report on internal control over compliance in accordance with the Uniform Guidance, but not for the purpose of expressing an opinion on the effectiveness of internal control over compliance. Accordingly, we do not express an opinion on the effectiveness of Pennichuck Corporation and Subsidiaries' internal control over compliance.

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A deficiency in internal control over compliance exists when the design or operation of a control over compliance does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, noncompliance with a type of compliance requirement of a federal program on a timely basis. A material weakness in internal control over compliance is a deficiency, or combination of deficiencies in internal control over compliance, such that there is a reasonable possibility that material noncompliance with a type of compliance requirement of a federal program will not be prevented, or detected and corrected, on a timely basis. A significant deficiency in internal control over compliance is a deficiency, or a combination of deficiencies, in internal control over compliance with a type of compliance requirement of a federal program that is less severe than a material weakness in internal control over compliance with a type of compliance requirement of a federal program that is less severe than a material weakness in internal control over compliance.

Our consideration of internal control over compliance was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control over compliance that might be material weaknesses or significant deficiencies. We did not identify any deficiencies in internal control over compliance that we consider to be material weaknesses. However, material weaknesses may exist that have not been identified.

The purpose of this report on internal control over compliance is solely to describe the scope of our testing of internal control over compliance and the results of that testing based on the requirements of the Uniform Guidance. Accordingly, this report is not suitable for any other purpose.

Melanson Heath

September 27, 2018

PENNICHUCK CORPORATION AND SUBSIDIARIES

Schedule of Expenditures of Federal Awards

For the Year Ended December 31, 2017

<u>Federal Agency</u> <u>Cluster</u> <u>Federal Office</u> Pass through Agency Program Title	Pass through Identifying <u>Number</u>	Federal CFDA <u>Number</u>	Federal Expenditures
U.S. Environmental Protection Agency			
Capitalization Grants for Drinking Water State Revolving Funds			
Environmental Protection Agency			
Passed Through State of New Hampshire Department			
of Environmental Services:			
Capitalization Grants for Drinking Water State			
Revolving Funds - Loan *	1371010	66.468	\$ 338,936
Capitalization Grants for Drinking Water State			
Revolving Funds - Loan *	612020	66,468	231,059
Capitalization Grants for Drinking Water State			
Revolving Funds - Loan **	1621010	66.468	1,792,351
Capitalization Grants for Drinking Water State			
Revolving Funds - Loan ***	1911010	66.468	113,046
Total Capitalization Grants for Drinking Water State Revolving			
Funds			2,475,392
			2,470,002
Total U.S. Environmental Protection Agency			2,475,392
Total Federal Expenditures			\$2,475,392_

Pennichuck East Utility, Inc.
 Pennichuck Water Works, Inc.

*** Pittsfield Aqueduct Company, Inc.

The accompanying notes are an integral part of this schedule.

PENNICHUCK CORPORATION AND SUBSIDIARIES

Notes to the Schedule of Expenditures of Federal Awards

For the Year Ended December 31, 2017

Note 1. Basis of Presentation

The accompanying Schedule of Expenditures of Federal Awards (the "Schedule") includes the federal award activity of Pennichuck Corporation and Subsidiaries under programs of the federal government for the year ended December 31, 2017. The information in this Schedule is presented in accordance with the requirements of Title 2 U.S. Code of Federal Regulations Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance). Because the Schedule presents only a selected portion of the operations of Pennichuck Corporation and Subsidiaries, it is not intended to and does not present the financial position, changes in net position or cash flows of Pennichuck Corporation and Subsidiaries.

Note 2. Summary of Significant Accounting Policies

- Expenditures reported on the Schedule are reported on the accrual basis of accounting. Such expenditures are recognized following the cost principles contained in the Uniform Guidance, wherein certain types of expenditures are not allowable or are limited to reimbursement.
- Pennichuck Corporation and Subsidiaries has elected not to use the 10percent de minimis indirect cost rate as allowed under the Uniform Guidance.

Note 3. Subrecipients

Of the federal expenditures presented in the Schedule, Pennichuck Corporation and Subsidiaries did not provide federal awards to subrecipients.

Note 4. Loans

Expenditures reported in the Schedule represent loan proceeds received and expended in the current year. The Federal government has not imposed continuing compliance requirements on these loans; therefore, no ending balances at December 31, 2017 are reported in these notes.

Pennichuck Corporation and Subsidiaries

Schedule of Findings and Questioned Costs

For the Year Ended December 31, 2017

SECTION I - SUMMARY OF AUDITORS' RESULTS

Financial Statement (Schedule of Feder	al Awards)				
Type of auditors' report issued: Unmodified					
Internal control over financial reporting:					
 Material weakness(es) identif 	ied?yes <u>√_</u> no				
 Significant deficiency(ies) idea 	ntified?yes _✓_ none reported				
Noncompliance material to financial stat noted?	tement yes _∕_no				
Federal Awards					
Internal control over major programs:					
 Material weakness(es) identif 	ied?yes <u>√_</u> no				
 Significant deficiency(ies) identified?yes none reporte 					
Type of auditors' report issued on comp major programs:	liance for				
Capitalization Grants for Drinking Wate Revolving Loan Funds – Loan Prog					
Any audit findings disclosed that are required to be reported in accordance w 2 CFR 200.516(a)?	rith yes _ ✓_ no				
Identification of major programs:					
CFDA Number(s)	Name of Federal Program or Cluster				
66.468	Capitalization Grants for Drinking Water State Revolving Loan Funds – Loan Program				
Dollar threshold used to distinguish between type A and type B programs:	\$750,000				
Auditee qualified as low-risk auditee?	yes 🗹 no				

SECTION II - FINANCIAL STATEMENT FINDINGS

None.

SECTION III - FEDERAL AWARDS FINDINGS AND QUESTIONED COSTS

None.

SECTION IV - SCHEDULE OF PRIOR YEAR FINDINGS

There were no findings in the prior year.

TAB 29

1604.01(a)(14) Officer and Director Compensation for each of the last 2 years, detailing base compensation, bonuses, and incentive plans.

This data does not exist. As noted in PAC's 2019 Annual Report, any officer/director compensation is allocated through the Management Fee Allocation agreements. See also Tab 33.

1604.01(a)(15) Officer and Executive Incentive Plans

This data does not exist for PAC.

1604.01(a)(16) List of Amount of Voting Stock: owned by an officer or director individually; owned by a spouse or mnior child or an officer or directro; controlled by the officer or director directly or indirectly.

This data does not exist. See Order No. 25,292 and Order No. 25,695.

1604.01(a)(17) For utilities with less than \$10,000,000 in annual gross revenues, a list of all Payments for Contractual Services in Excess of \$10,000. For utilities \$10,000,001 to \$100,000,000 a list of payments in excess of \$50,000.

Pittsfield Aqueduct Company, Inc. Contractual Services over \$10,000 For the Twelve Months Ended December 31, 2019

Provided pursuant to NHPUC Rule 1604.01(17)

Name		Address	Amount	Purpose
R.H. WHITE CONSTRUCTION CO	PO BOX 404	41 Central Street Ma, 1501	\$12,653.40	CONSTRUCTION SERVICES
		Tota	l \$12,653.40	

1604.01(a)(18) Amount of Assets and Costs Allocated to Non-Utility Operations and justification for such allocations

Pennichuck Water Works Operating Expense Allocation (to other Subsidiary Companies)

						Dollars Applicable to:			C Sheing Wage
									Fringes Only (budgeted
	Tier Allocation Required	Special Allocation	<u>Tier 1 (All)</u>	er 2 (Regulated + Ti PWSC)	er 3 (PWW+PEU PWSC)	+ Tier 4 (Regulated)	PWSC Only	PAC Only	specifically or PAC P/L)
TD EXPENSES									
499.167		1	499.167						
		4	499,107	-	-	4 007 000	-	-	-
1,207,889		4	407 004	-	-	1,207,889	-	-	
		1			-	-	-	-	
724,045		1	724,045	-	-	-	-	-	
		1		-	-	-	-	-	
			-	1,094,979	-	-	-	-	
		6	-	-	-	-	145,560	-	
		1	(1,942)		-	-	-	-	
(353,484)		4	-	-	-	(353,484)	-	-	
		1	243,244		-	-	-	-	
588,604		4	-		-	588,604	-	-	
		1		-	-		-	-	
352,827		1	352,827		-	-	-	-	
89,941		1	89,941		-	-	-	-	
533,583		2	-	533,583	-	-	-	-	
		6	_				70 021		
			(046)		-	-	10,931	-	
(172,253)			(940)	-	-	(172,253)	-	-	
						Dollars Applicable to:			
						Donard Applicable to:			C Sheing Wage
									Fringes Only
	Tier Allocation		т	er 2 (Regulated + Ti	er 3 (PWW+PEU	•			(budgeted specifically c
<u>r 1</u>	Required	Special Allocation	Tier 1 (All)	PWSC)	PWSC)	Tier 4 (Regulated)	PWSC Only	PAC Only	PAC P/L)
34,990		1	34,990	-	-	-	-	-	
		1		-	-	-	-	-	
		1		-	-	-	-	-	
		1		-	-	-	-	-	
44,960		1	44,960	-	-	-	-	-	
33,117		1	33,117	-	-	-	-	-	
-		1	-		-	-	-	-	
3,822		1	3,822		-	-		-	
4,504		1	4,504	-	-	-		-	
476		1	476	-	-	-		-	
253		1	253	-	-	-	-	-	
269.938		1	269.938			-			
46 091		1	46 091	-	-	-	-	-	
15 327		1					-		
		1	2 190				-		
		1							
			0,001		-	105 970			
12,800			-	-	-		-		
		4			-				
			-	-	-	4 400	-		
4,488 23,570		4 2	-	23,570	-	4,488	-	-	
23,570 590,310		2	- 590,310	23,570	-		-	-	
		2		53,162					
52 160		<u>-</u>	-	03,102	-	-	-	-	
53,162		1	826,915	-	-	-	-	-	
826,915		1	13,389	-	-	-	-	-	
826,915 13,389			6,796	-	-	-	-	-	
826,915		1				-	-	-	
826,915 13,389		1	-	-					
826,915 13,389 6,796 - -		1 1 1	:	-		-	-	-	
826,915 13,389		1 1 1 1	1,476 5,133,886	1,705,294	1	- 1,414,489	216,491	-	
	533,683 70,931 (946) (172,253) 	724.045 184.571 1.094.979 145.560 (1.942) (33.444) 243.244 588.604 243.244 533.563 70.031 (946) (172.253) Tier Allocation Required 34.990 46.604 33.817 23.362 44.860 44.865 105.970 2.53 269.938 46.091 1.2390 2.0385 4.488	T24.045 1 184.571 1 1.094.979 2 145.560 6 (1.942) 1 243.244 1 2556.604 4 227.507 1 352.827 1 235.383 2 70.031 6 (172.253) 4 Tier Allocation Special Allocation 3.822 1 3.822 1 3.822 1 3.822 1 3.822 1 3.822 1 3.822 1 3.822 1 3.822 1 3.822 1 1 3.822 1 3.822 1 1 1 2.829 1 2.929 <td>T24,045 1 T24,045 1 T24,045 1 T24,045 1 184,571 1 184,571 1 184,571 1 184,571 1 1 184,571 1 1 145,560 6 -</td> <td>Tet Allocation Tet Allocation Tet 24 (45 - 109.979 2 - 1.094.979 - 145,550 6 - - 1.094.979 145,550 6 - - - (19.42) 1 (1.942) - - 258,804 4 - - - 223,557 1 237.507 - - 232,557 1 237.507 - - 235,833 2 8.941 - - - 70.931 6 - - - 533,583 20.901 1 46.804 - - - 70.931 6 - - - - - 170.931 6 - - - - - - 34.990 1 46.804 - - - - - 34.990 1 46.804 -</td> <td>Tet Aloc 1 724 (45) - - 18,571 1 184,571 - - - 14,550 6 - - - - (19,42) 1 (1,42) - - - (19,42) 1 (1,42) - - - (25,24) 1 243,244 - - - 243,244 1 243,244 - - - - 237,597 1 237,597 - <</td> <td>T24 045 18.6.71 1 T24 045 1 -</td> <td>724.065 1 724.045 - 145.560 6 - - - 145.560 6 - - - 145.560 6 - - - 145.560 6 - - - 145.560 6 - - - 16.353 3 2 1 135.2827 1 1 233.583 2 2 1 335.833 2 1 1 335.833 2 1 1 1 1 1 1 <th1< th=""> 1 <th1< th=""></th1<></th1<></td> <td>724 065 184,571 1 724 045 1 (194,27) .</td>	T24,045 1 T24,045 1 T24,045 1 T24,045 1 184,571 1 184,571 1 184,571 1 184,571 1 1 184,571 1 1 145,560 6 -	Tet Allocation Tet Allocation Tet 24 (45 - 109.979 2 - 1.094.979 - 145,550 6 - - 1.094.979 145,550 6 - - - (19.42) 1 (1.942) - - 258,804 4 - - - 223,557 1 237.507 - - 232,557 1 237.507 - - 235,833 2 8.941 - - - 70.931 6 - - - 533,583 20.901 1 46.804 - - - 70.931 6 - - - - - 170.931 6 - - - - - - 34.990 1 46.804 - - - - - 34.990 1 46.804 -	Tet Aloc 1 724 (45) - - 18,571 1 184,571 - - - 14,550 6 - - - - (19,42) 1 (1,42) - - - (19,42) 1 (1,42) - - - (25,24) 1 243,244 - - - 243,244 1 243,244 - - - - 237,597 1 237,597 - <	T24 045 18.6.71 1 T24 045 1 -	724.065 1 724.045 - 145.560 6 - - - 145.560 6 - - - 145.560 6 - - - 145.560 6 - - - 145.560 6 - - - 16.353 3 2 1 135.2827 1 1 233.583 2 2 1 335.833 2 1 1 335.833 2 1 1 1 1 1 1 <th1< th=""> 1 <th1< th=""></th1<></th1<>	724 065 184,571 1 724 045 1 (194,27) .

		PWW	PEU	Pittsfield	1	otal Regulated	Con Ops (PWS)1	Real Estate (TSC) ¹	Total
Revenues ⁴	_	32,280,395	8,819,088	774,537	\$	41,874,020 93.51%	2,892,868 6.46%	12,033	\$ 44,778,92
Employees (FTE's) - 2019 (excluding employees without benefits)						128 99.22%	1 0.78%	0 0.00%	
Square Footage - w/ addt1 lease space Manchester Street Facility ⁵						19,421 99.00%	196 1.00%	0	
Total Assets ²	\$	267.705.032 \$ 79.02%	66,609,561 \$ 19.66%	4,461,150 1.32%	\$	338,775,744 99.82%	\$ 249,629 0.07%		
Customers ³		29,006 76.55%	8,248 21.77%	<mark>639</mark> 1.69%		37,893 100.01%			
Average Percentage		77.79%	20.72%	1.51%		97.89%	2.08%	0.04%	100.01
Allocation of Allocable Expenses Effective Allocation %		3.907.979 76.12%	1,041,190 20.28%	75,878 1.48%		5,025,047	106,785 2.08%	2,054 0.04%	
1 2 3 4	 Based on Based on 	0% of 1 employee December 2019 Prelir December 2019 Actua December 2019 Prelir	als	npany Account Baland					

		PWW		PEU	Pittsfield	 Total Regulated	Con	n Ops (PWS) 1	Real Est	ate (TSC)	 Total
Total Assets ²	\$	267.705.032 79.02%		66.609.561 19.66%	\$ 4,461,150 1.32%	\$ 338,775,744 99.93%		249,629 0.07%	s	.00%	\$ 339,025,373 100.00%
Customers ³		29,006 76.55%		8,248 21.77%	639 1.69%	37,893 82.33%		8,131 17.67%		C	46,024
Average Percentage		77.79%		20.72%	1.51%	91.13%		8.87%			100.00%
Allocation of Allocable Expenses Effective Allocation %		1,208,572 70.87%		321,996 18.88%	23,466 1.38%	1,554,034		151,260 8.87%		D /A	\$ 1,705,294
- PWS customers based on municipality custo	mers and	i pro rated based	d on serv	ices rendered							
Allocation Calculation - Tier 3 (PWW, PEU a	nd PWSC	PWW		PEU	Pittsfield		Co	n Ops (PWS)	Real Est	ate (TSC)	Total
Total Assets ²	s	267,705,032	\$	66,609,561			\$	249,629			\$ 334,564,223

Total Assets ²	\$ 267,705,032 \$ 80.02%	66.609.561 19.91%	\$ 249,629 0.07%	\$ 334,564,223 100.00%	
Customers ³	29,006 63.91%	8,248 18.17%	8,131 17.92%	45,385 100.00%	
Average Percentage	71.97%	19.04%	9.00%	100.01%	Check Total
Allocation of Allocable Expenses Effective Allocation %	\$ - \$ #DIV/0!	- 0 #DIV/0! N/A	\$ - #DIV/0!	0 \$ - N/A	\$ -

	 PWW	PEU	Pittsfield	Con Ops (PWS)	Real Estate (TSC) ¹	 Total	
Total Assets ²	\$ 267,705,032 \$ 79.02%	66,609,561 19.66%	\$ 4,461,150 1.32%			\$ 338,775,744 100.00%	
Customers ³	29,006 76.55%	8,248 21.77%	639 1.69%			37,893 100.01%	
Average Percentage	77.79%	20.72%	1.51%			100.02%	Check To
Allocation of Allocable Expenses Effective Allocation %	\$ 1.100.048 \$ 77.77%	293.082 20.72%	\$ 21,359 1.51%	0 N/A	0 N/A	\$ 1,414,489	\$

Specific Allocation Calculations - Tier 5-7							
	PWW	PEU	Pittsfield	Con Ops (PWS)	Real Estate (TSC) ¹	Total	Check Total
Direct Allocable Costs	0 N/A	0 N/A	-	216,491	0 N/A	216,491	\$-

Summary of Allocations	PWW	PEU	Pittsfield	Con Ops (PWS)	Real Estate (TSC)	Totals			
Tier 1	3,907,979	1,041,190	75,878	106,785	2,054	5,133,886			
Tier 2	1,208,572	321,996	23,466	151,260	-	1,705,294			
Tier 3	-	-	-	-	-				
Tier 4	1,100,048	293,082	21,359	-	-	1,414,489			
							unallocated		
PWSC only and PAC only	-	-	-	216,491	-	216,491	PAC/PEU	Total	Check 1
Total Allocations	6,216,598	1,656,268	120,703	474,536	2,054	8,470,160		8,470,160	
	73.39%	19.55%	1.43%	5.60%	0.02%	100.00%			

PWSC Customers	Operations	Water Supply	Billing	Cust Svc	Customers	Customers
Salisbury	0.250	0.250	0.250	0.250	3,700	3,700
Boscawen	0.250	0.250	0.083	0.083	1,190	793
Amesbury	-	-	0.167	0.167	5,800	1,937
Rowley	-	-	0.250	0.250	1,880	940
Eastham	-	-	0.125	0.125	800	200
Wellfleet	-	-	0.125	0.125	264	66
Woodstock	0.250	0.250	-	-	990	495
						8,131

Note: Customer Counts updated 11/13/2019

Pennichuck Water Works Work Order Allocation of Operations and Production Expenses For Month Ending 12/31/2019

Full Year Amounts (to be allocated)	
Wages	
Superintendence - WTP	262,269
Office Salaries & Wages: WTP	330,772
Purification Labor	227,664
Superintendence - Operations Office Salaries - Operations	339,564 115,210
Benefits	
Superintendence - WTP	127,804
Office Salaries & Wages: WTP	161,185
Purification Labor	110,941
Superintendence - Operations	165,469
Office Salaries - Operations	56,142
Facilities - Will Street	
Maint: Meter Department	233
Will Street Parking	-
Will Street Office Supplies Will Street Gas	13,068 7,842
Will Street Electric	35.337
Will Street Phone	41,565
Miscellaneous Charges	
Misc Gen Exp Ops	69,826
Misc T&D Materials & Supplies	17,300
Stores Expense	55,730
Small Tools Expense	35,406
OPS - Non-Union Vehicles WTP - Non-Union Vehicles	798
Misc.Transport Expense	71.406
Non-Union Vehicle Fuel Costs	32,523
Misc Gen Equipment Exp	36,224
Depreciation - 2304	
16 DW Highway	184,471
Tools, Shop & Garage	44,785
Other Tangible Equipment-Misc Equip	26,102
Non-Union Transporation Depreciation	51,629
Total Allocable Expenses	2,627,831
Non-Union Transporation Depreciation Total Allocable Expenses	

					2019 Work	order Costs						
	PWW Capital	070 WTP Maintenance	080 OPS Maintenance	Fleet	PWW Jobbing	PWS Maintenance	PWS Jobbing	PAC Capital	PAC Maintenance	PEU Capital	PEU Maintenance	Total
Labor	58,274.36	894,072.37	1,745,057.06	77,818.68	48,707.59	425,823.36	56,554.82	3,732.23	83,624.18	27,095.30	762,210.60	4,182,970.55
Contractor Clearing	114,695.11	-	-	166,958.84	11,722.11		473,888.18	2,696.82		100,281.44		870,242.50
Inventory: Pipes & Fittings	26,534.47	499.80	74,290.19	-	22,408.08	76.73	921.42	456.88	723.69	10,361.10	17,887.35	154,159.71
Inventory: Meters	222,176.17	-	2,846.41	-	-		2,352.80	1,540.41	320.12	89,738.39	2,923.76	321,898.06
Inventory: Misc T&D	55.17	-	40.56	-	-			-		-	25.97	121.70
Inventory: Chemicals	-	913,828.98	-	-	-		10,233.07	-		-	66,041.51	990,103.56
Inventory: Fleet	-	-	-	3,220.49	-		-	-		-		3,220.49
Inventory: Backup Gen Fuel	-	-	-	-	-		-	-		-		-
Misc T&D Supplies	-	-	-	-	-		-	-		-		-
Truck	24,529.25	89,684.75	332,620.75	2,024.75	20,294.75	134,802.50	14,904.70	1,345.75	8,863.75	10,028.50	228,599.00	867,698.45
Backhoe	7,582.75	677.50	37,128.00	-	6,201.75	194.75	612.50	433.75	1,058.25	3,250.50	12,870.25	70,010.00
Compressor	-	-	4,189.50	-	-		-	-		-	1,083.00	5,272.50
Inspection Fees	-	-	-	-	123,612.00		-	-		-		123,612.00
Overhead	9,112.72	-	-	-	39,004.45	-	-	252.98	-	5,054.04	-	53,424.19
Labor Overhead	37,229.44	565,411.37	1,103,574.08	49,212.53	47,320.49	264,601.01	36,260.73	2,439.34	44,507.85	17,366.31	488,205.04	2,656,128.19
Misc General Equipment												
Total Costs	500,189.44	2,464,174.77	3,299,746.55	299,235.29	319,271.22	825,498.35	595,728.22	12,898.16	139,097.84	263,175.58	1,579,846.48	10,298,861.90
Total Costs w/o OH & CW	376,381.61	2,464,174.77	3,299,746.55	132,276.45	268,544.66	825,498.35	121,840.04	9,948.36	139,097.84	157,840.10	1,579,846.48	9,375,195.21
-												
	4.86%	23.93%	32.04%	2.91%	3.10%	8.02%	5.78%	0.13%	1.35%	2.56%	15.34%	100.00%
of Total w/o OH & CWIP	4.86% 4.01%	23.93% 26.28%	32.04% 35.20%	2.91% 1.41%	3.10% 2.86%	8.02% 8.81%	5.78% 1.30%	0.13% 0.11%	1.35% 1.48%	2.56% 1.68%	15.34% 16.85%	100.00% 100.00%
of Total w/o OH & CWIP /hd Allocable to Work Orders	4.01%	26.28%	35.20%	1.41%	2.86%	8.81%	1.30%	0.11%	1.48%	1.68%	16.85%	100.00%
of Total w/o OH & CWIP												
of Total w/o OH & CWIP vhd Allocable to Work Orders 2,627,831	4.01%	26.28%	35.20%	1.41%	2.86%	8.81%	1.30%	0.11%	1.48%	1.68%	16.85%	100.00%
of Total w/o OH & CWIP whd Allocable to Work Orders 2,627,831	4.01% 127,627	26.28% 628,752	35.20% 841,955	1.41% 76,352	2.86% 81,464	8.81%	1.30%	0.11%	1.48%	1.68%	16.85%	100.00% 2,627,829
of Total w/o OH & CWIP /hd Allocable to Work Orders 2,627,831 otals by Company: WW	4.01%	26.28%	35.20%	1.41%	2.86%	8.81%	1.30%	0.11%	1.48%	1.68% 67,151	16.85% 403,109	100.00% 2,627,829 1,756,150
of Total w/o OH & CWIP vhd Allocable to Work Orders 2,627,831 otals by Company: WW EU	4.01% 127,627	26.28% 628,752	35.20% 841,955	1.41% 76,352	2.86% 81,464	8.81%	1.30%	0.11% 3,291	1.48% 35,492	1.68%	16.85%	100.00% 2,627,829 1,756,150 470,260
of Total w/o OH & CWIP /hd Allocable to Work Orders 2,627,831 otals by Company: WW EU AC	4.01% 127,627	26.28% 628,752	35.20% 841,955	1.41% 76,352	2.86% 81,464	8.81% 210,632	1.30%	0.11%	1.48%	1.68% 67,151	16.85% 403,109	100.00% 2,627,829 1,756,150 470,260 38,783
of Total w/o OH & CWIP /hd Allocable to Work Orders 2,627,831 otals by Company: WW EU AC WS	4.01% 127,627 127,627	26.28% 628,752 628,752	35.20% 841,955 841,955	1.41% 76,352 76,352	2.86% 81,464 81,464	8.81% 210,632 210,632	1.30% 152,004 152,004	0.11% 3,291 3,291	1.48% 35,492 35,492	1.68% 67,151 67,151	16.85% 403,109 403,109	100.00% 2,627,829 1,756,150 470,260 38,783 362,636
of Total w/o OH & CWIP /hd Allocable to Work Orders 2,627,831 otals by Company: WW EU AC WS	4.01% 127,627	26.28% 628,752	35.20% 841,955	1.41% 76,352	2.86% 81,464	8.81% 210,632	1.30%	0.11% 3,291	1.48% 35,492	1.68% 67,151	16.85% 403,109	100.00% 2,627,829 1,756,150 470,260 38,783
of Total of 4 & CWIP vhd Allocable to Work Orders 2.627,831 votals by Company: WW EU VAC val Overhead 6 Labor	4.01% 127,627 127,627	26.28% 628,752 628,752	35.20% 841,955 841,955	1.41% 76,352 76,352	2.86% 81,464 81,464	8.81% 210,632 210,632	1.30% 152,004 152,004	0.11% 3,291 3,291	1.48% 35,492 35,492	1.68% 67,151 67,151	16.85% 403,109 403,109	100.00% 2,627,829 1,756,150 470,260 38,783 362,636
of Total w/o OH & CWIP vhd Allocable to Work Orders 2,627,831 otals by Company: WW EU AC WS otal Overhead	4.01% 127,627 127,627 127,627	26.28% 628,752 628,752 628,752	35.20% 841,955 841,955 841,955	1.41% 76,352 76,352 76,352	2.86% 81,464 81,464 81,464 81,464	8.81% 210,632 <u>210,632</u> 210,632	1.30% 152,004 <u>152,004</u> 152,004	0.11% 3,291 3,291 3,291	1.48% 35,492 35,492 35,492 35,492	1.68% 67,151 67,151 67,151	16.85% 403,109 403,109 403,109	100.00% 2,627,829 1,756,150 470,260 38,783 362,636 2,627,829
of Total w/o OH & CWIP vhd Allocable to Work Orders 2,627,831 otals by Company: WW EU AC WS otal Overhead	4.01% 127,627 127,627 127,627	26.28% 628,752 628,752 628,752	35.20% 841,955 841,955 841,955	1.41% 76,352 76,352 76,352	2.86% 81,464 81,464 81,464 81,464	8.81% 210,632 <u>210,632</u> 210,632	1.30% 152,004 <u>152,004</u> 152,004	0.11% 3,291 3,291 3,291	1.48% 35,492 35,492 35,492 35,492	1.68% 67,151 67,151 67,151	16.85% 403,109 403,109 403,109	100.00% 2,627,829 1,756,150 470,260 38,783 362,636 2,627,829

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Pennichuck Water Works Return on Common Assets Allocation (to other Subsidiary Companies) For Month Ending 12/31/2019

27.08%

Provided pursuant to NHPUC Rule 1604.01(25)

Effective	Tax Rate	 current 	

	4.82%						Dollars Applicable to:			
Full Year Amounts (to be allocated)	Rate of Return	Net Book Value	Tier Allocation Required	Tier 1 (All)	Tier 2 (Regulated + PWSC)	Tier 3 (PWW+PEU+ PWSC)	Tier 4 (Regulated)	PWSC Only	PAC Only	TSC Only (budgeted specifically on TSC P/L)
Office Furniture & Equipment Transportation Equipment Tools. Shop & Garage Equipment Construction Maters Fower Operated Equipment Communication Equipment Other Plant and Misc. Equipment LeaseNold Improvements LeaseNold Improvements	2,084 98,110 18,627 121 10,175 25,227 134,955 20,590 635 333,632	43,226 2,035,475 386,446 2,504 211,089 523,382 2,799,892 427,173 13,166 6,921,824	1 2 2 2 4 1 4 3	2,084 - - - 134,955 - - 635 -	98,110 - 121 10,175 - - - - -	18,627	- 25,227 20,590	-	-	
Will Street Expansion Deferred Pension Costs Deferred Post Retirement Health Deferred Post Employment Health Deferred SERP VERA Trust - Union VERA Trust - Union VERA Trust - Non-union Union Negotiations - 2013 Union Negotiations - 2015	494,957 51,943 - 38,030 22,204 6,911 -	10,268,820 1,077,660 789,010 460,665 143,375	3 1 1 1 1 1 1 1 1	494,957 51,943 38,030 22,204 6,911	-		-	-	-	
Deferred Pension Costs Deferred Post Employment Health Deferred Post Retrement Health Less: Accrued Liability Pension - ST Less: Accrued Liability Pension - LT Less: Post Employment Health Liability - ST Less: Post Employment Health Liability - LT Less: Accrued Liability SERP VEBA Trust - Vinion VEBA Trust - Vinion VEBA Trust - Vinion VEBA Trust - Non-union Less: Post Retirement Liability Health - ST Less: Post Retirement Liability Health - LT		10,268,820 1,077,660 789,010 (12,970,815) (380,788) 460,665 143,375 (4,585,921)								
Subtotal Less: Tax Impact at current effective tax rate Net Impact Unfunded FAS 106 & FAS 158 Costs	(182,696)	(5,197,996) 1,407,617 (3,790,378)	I 1	(182,696)	-	-	-	-	-	
Total Allocable Expenses	1,075,505	22,313,328.42		569.023	108,406	352,259	45,817	-	-	-
Note: Rate of Return based on YTD NBV/12#months										

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Tier 1 - use the corporate expense allocation between TSC, PWSC and regulated utilities. The allocation among utilities will be based on total assets and customers. Tier 2 - allocate to PWW, PEU and PWSC based on total assets and customers Tier 3 - allocate to the regulated utilities (PWW, PEU and PAC) based on total assets and customers. Note: Laborate b to the regulated utilities (PWW, PEU and PAC) based on total assets and customers. Note: Laborate regulated utilities (PWW, PEU and PAC) based on total assets and customers.

Allocation Calculation - Tier 1 (All Companies)								
							Real Estate	
	PWW	PEU	Pittsfield	Tot	al Regulated	Con Ops (PWS)1	(TSC) ¹	Total
Revenues ⁴	32,280,395	8,819,088	774,537	\$	41,874,020 93.51%	2,892,868 6.46%	12,033 0.03%	\$ 44,778,922 100.00%
Employees (FTE's) - 2019 including summer help)					128 99.22%	1 0.78%	0 0.00%	129 100.00%
Square Footage - w/ addt'l lease space Manchester Street Facility					19,421 99.00%	196 1.00%	0 0.00%	19,617 100.00%
Total Assets ²	267,705,032 79.02%	66,609,561 19.66%	4,461,150 1.32%		338,775,744 99.82%	249,629 0.07%	\$ 365,332 0.11%	\$ 339,390,705 100.00%
Customers ³	29.006 76.55%	8.248 21.77%	639 1.69%		37,893 100.00%			
Average Percentage	77.78%	20.71%	1.50%		97.89%	2.08%	0.04%	100.01%
Allocation of Allocable Expenses Effective Allocation %	433,259 76.14%	115,346 20.27%	8,354 1.47%		556,959	11,836 2.08%	228 0.04%	\$ 569,023
	1							
	2 3							
	4							

	_	PWW	PEU	Pittsfield	Total Regula	ed Co	n Ops (PWS) 1	Real Estate (TSC)	Total	
Total Assets ²	\$	267,705,032 \$ 79.02%	66,609,561 \$ 19.66%	4,461,150 1.32%	\$ 338,775, 99.		249,629 0.07%	\$ - 0.00%	\$ 339,025,373 100.00%	
Customers ³		29,006 76.55%	8.248 21.77%	639 1.69%	- 37. 82.		8,131 17.67%	0	46.024	
Average Percentage		77.79%	20.72%	1.51%	91.	3%	8.87%		100.00%	
Allocation of Allocable Expenses Effective Allocation %		76.829 70.87%	20,469 18,88%	1,492 1,38%	98.	90	9.616 8.87%	0 N/A	\$ 108,406	
- PWS customers based on municipality cu		rated based on serv	ices rendered							
 PWS customers based on municipality curve Allocation Calculation - Tier 3 (PWW, PEU) 		rated based on serv	ices rendered							
		PWW	PEU	Pittsfield		C	on Ops (PWS)	Real Estate (TSC)	Total	
				Pittsfield		_ <u>Cc</u> \$	on Ops (PWS) 249,629 0.08%	Real Estate (TSC)	Total \$ 334.564,223 100.00%	
Allocation Calculation - Tier 3 (PWW, PEU	J and PWSC)	PWW	PEU	Pittsfield			249,629	Real Estate (TSC)	\$ 334,564,223	
Allocation Calculation - Yier 3 (PWW, PEU	J and PWSC)	PWW 267.705,032 \$ 80.02% 29,006	PEU 66.609.561 19.91% 8,248	Pittsfield			249,629 0.08% 8,131	Real Estate (TSC)	\$ 334,564,223 100.00% 45,385	

2	 PWW									
2		P	PEU	Pi	ttsfield	_	Con Ops (PWS)	(TSC) ¹	 Total	
Total Assets ²	\$ 267,705,032 79.02%		6,609,561 19.66%	\$	4,461,150 1.32%				\$ 338,775,744 100.00%	
Customers ³	29,006 76.55%		8,248 21.77%		639 1.69%				37,893 100.00%	
Average Percentage	77.78%		20.71%		1.50%				99.99%	
Allocation of Allocable Expenses Effective Allocation %	\$ 35,641 77,79%		9,489 20.71%	\$	687 1.50%		0 N/A	0 N/A	\$ 45,817	<u>Check To</u> \$

Specific Allocation Calculations - Tier 5-7						Real Estate		
	PWW	PEU	Pittsfield	North Country	Con Ops (PWS)	(TSC) ¹	Total	Check Total
Direct Allocable Costs	0	0	-		-	0	-	\$-
	N/A	N/A				N/A		

Summary of Allocations	PWW	PEU	Pittsfield	North Country	Con Ops (PWS)	Real Estate (TSC)	Totals		
Tier 1	433,259	115,346	8,354	-	11,836	228	569,023		
Tier 2	76,829	20,469	1,492		9,616		108,406		
Tier 3	253,486	67,070	-	-	31,703	-	352,259		
Tier 4	35,641	9,489	687				45,817		
PWSC only and PAC only	-	-	-		-	-	-	unallocated TSC	Check Tota
Total Allocations	799,215	212,374	10,533		53,155	228	1,075,505		
	74.31%	19.75%	0.98%	0.00%	4.94%	0.02%	100.00%		

	Ar	nnual Amts	Mo	nthly Amts
PWW operating expense allocation - PWW	\$	(276,290)	\$	(23,025
PWW operating expense allocation - PEU	s	212,374	s	17,698
PWW operating expense allocation - Pittsfield	\$	10,533	\$	878
PWW operating expense allocation - PCP	s		s	
PWW operating expense allocation - PWS	s	53,155	s	4.430
PWW operating expense allocation - TSC	\$	228	\$	19
Check Totals	s		s	

Pennichuck Corporation Mgmt Fee Expense Allocation (to other Subsidiary Companies) For Month Ending 12/31/2019

Board of Directors Education & Training Total Allocable Expense	296.836
Board of Directors	128,410
EDGAR Filing/NASDAQ/All Other Misc	-
Directors Fees & Meetings/Corporate Secretary	-
Corp Governance Legal/American Stock Transfer	-
Auditors Expense/SEC Legal	113,578
Annual Report Cost & Meeting	1,118
D&O Insurance	33,376
Professional Fees	20,354

Provided pursuant to NHPUC Rule 1604.01(25)

		PWW	 PEU	Pittsfield	То	tal Regulated	Co	n Ops (PWS)	Real	Estate (TSC)	Total	
Revenues Financial Prelims	\$	32,280,395 72.09%	\$ 8,819,088 19.70%	\$ 774,537 1.73%	\$	41,874,020	\$	2,892,868 6.46%	\$	12,033 0.03%	\$ 44,778,922 100.00%	
Total Assets Financial Prelims	s	267,705,032 78.88%	\$ 66,609,561 19.63%	\$ 4.461,150 1.31%	\$	338,775,744	\$	249,629 0.07%	\$	365,332 0.11%	\$ 339,390,705 100.00%	
Average Percentage		75.48%	19.66%	1.52%				3.27%		0.07%	100.00%	Check Tota
Allocation of Allocable Expenses		224.060	58.359	4,518	\$	286,938		9.698		200	\$ 296,836	\$

	Y	TD Costs	Cur	rent Balance	Mor	nthly Adj
PCP Mgmt Fee Expense Allocation - PCP	\$	(296,835)	\$	(273,692)		(23,143
PCP Mgmt Fee Expense Allocation - PWW	s	224,060	\$	206,390		17,670
PCP Mgmt Fee Expense Allocation - PEU	s	58,359	\$	53,235		5,124
PCP Mgmt Fee Expense Allocation - PAC	s	4,518	\$	4,151		367
PCP Momt Fee Expense Allocation - PWS	s	9,698	s	8,898		800
PCP Mgmt Fee Expense Allocation - TSC	Ś	200	\$	1,018		(818
Check Totals			~			

	Pen	n Water	Penn East	Pittsfield	Total <u>Regulated</u>	Con Ops(PWSC)	Real Estate(TSC)	Total
Nocated Corporate Costs % Nilocated Return on Common Assets Nilocated Pennichuck Water Costs - Work Orders % Nilocated Pennichuck Water Costs - Management Fee %	\$	224,060 \$ 75.5% 799,215 74.3% 1,756,150 66.8% 6,216,598 73.4%	58,359 \$ 19,7% 212,374 19,7% 470,260 17,9% 1,656,268 19,6%	4.518 \$ 1.5% 10.533 \$ 1.0% 38.783 \$ 1.5% 120.703 \$ 1.4%	96.7% 1,022,122 95.0% 2,265,193 86.2%	\$ 9,698 3.3% 53,155 4.9% 362,636 13.8% 474,536 5.6%	\$ 200 0.1% 228 0.0% - 0.0% 2.054 0.0%	100.09 \$ 1,075,505 100.09 \$ 2,627,829 100.09
Fotal Allocated 2019 Costs %	\$	8,996,026 \$ 72.1%	2,397,262 \$ 19.2%	<u>174,537</u> \$ 1.4%	11,567,825 92.8%	\$ 900,025 7.2%	\$ 2,482 0.0%	\$ <u>12,470,332</u> 100.09
PREPARED BY: REVIEWED & APPROVED BY:			NTE:					

Summary of 2019 Allocated Costs Year to Date Costs through December 31, 2019 Pennichuck Corporation (Dollar amounts in \$ 000's)										
	Pe	nn Water	Penn East	Pittsfield	Total <u>Regulated</u>	Co	n Ops(PWSC)	Rea	I Estate(TSC)	 Total
Allocated Corporate Costs %	\$	224,060 75.5%	58,359 19.7%	\$ 4,518 1.5%	\$ 286,938 96.7%	\$	9,698 3.3%	\$	200 0.1%	\$ 296,836 100.0%

	Y	TD Costs	Current Balance	Monthly Adj
PCP Mgmt Fee Expense Allocation - PCP	s	(296,835)	(273,692)	(23,143
PCP Mgmt Fee Expense Allocation - PWW	\$	224,060	206,390	17,670
PCP Momt Fee Expense Allocation - PEU	s	58,359	53.235	5,124
PCP Mgmt Fee Expense Allocation - PAC	ŝ	4,518	4,151	367
PCP Momt Fee Expense Allocation - PWS	s	9,698	8.898	800
PCP Mgmt Fee Expense Allocation - TSC	\$	200	1,018	(818
Check Totals	s	-	s -	s -

Pennichuck Water Works (Dollar amounts in \$ 000's)							
	Penn Water	Penn East	Pittsfield	Total <u>Regulated</u>	Con Ops(PWSC)	Real Estate(TSC)	Total
Allocated Return on Common Assets	799,215 74,3%	212,374 19,7%	10.533 \$ 1.0%	1,022,122 95.0%	53,155 4.9%	228 0.0%	\$ 1,075,505 100.0%
Allocated Pennichuck Water Costs - Work Orders	1,756,150 66.8%	470,260 17,9%	38,783 \$ 1.5%		362,636 13.8%	0.0%	\$ 2,627,829
Allocated Pennichuck Water Costs - Management Fee %	6,216,598 73.4%	1,656,268 19.6%	120,703 \$ 1.4%	7,993,569 94.4%	474,536 5.6%	2,054 0.0%	\$ 8,470,160 100.0%
Total Allocated 2019 Costs	\$ 8.771.963 \$	2.338.902 \$	170.019 \$	11.280.884	\$ 890.327	\$ 2.282	\$ 12.173.494

					Monthly
		YTD Costs	Current Balance	A	djustment
PWW operating expense allocation - PWW	\$	(3,401,530)	(3,107,986)	\$	(293,544
PWW operating expense allocation - PEU	\$	2,338,902	2,124,005	\$	214,897
PWW operating expense allocation - PAC	\$	170,019	154,156	\$	15,863
PWW operating expense allocation - PCP	\$	-	-	\$	-
PWW operating expense allocation - PWS	\$	890,327	820,135	\$	70,192
PWW operating expense allocation - TSC	\$	2,282	9,690	\$	(7,408
Check Totals	e	0	s -	~	

Non-Union Wage Unit 5 5,979 766,908 158,243 1 1,043,263 1 1,043,263 1 1,23,424 2 1,47,962 3 11,865 2 1,23,424 2 2,1,915 7 74,326 3 - 3 - 3 395,135 3 3,305 4 4,597 2 2,06,436	56,132 115,165 804,803 9,145 95,212 17,313 16,905 20,807 78,350 6,744 220,050 36,874 220,050 36,165 26,7568	Total with Adjustments 5,979 1,325,040 273,408 147,982 1,848,066 21,000 218,636 39,756 38,820 47,778 152,676 378,365 6,744 220,050 36,165	nts 779 740 740 740 742 742 745 756 756 756 756 756 756 756 756 756 75		
5,979 766,908 168,243 147,982 1147,982 11,043,283 12,143,283 12,143,283 12,143,283 12,143,283 12,143,283 14,145,143 14,145,143 14,145,143 14,145,143 14,145,143 14,145,143 14,145,143 14,145,143 14,145,143 14,145,143 14,145,145,145,145,145,145,145,145,145,1	558,132 115,165 904,803 9,145 95,212 17,313 16,905 20,807 78,350 6,744 220,050 36,165 26,7568	5,979 1,325,040 273,408 1,848,066 21,000 218,636 39,756 38,820 47,778 152,676 378,365 6,744 220,050	775 340 340 340 342 342 342 342 342 345 345 345 345 345 345 345 345 345 345		
766,908 158,243 147,982 1143,283 1143,283 1143,283 1143,283 1143,283 123,424 21,915 22,433 21,915 74,326 - - - - - - - - - - - - - - - - </th <th>115,165 804,803 9,145 95,212 17,313 16,905 20,807 78,350 378,356 6,744 220,050 36,165 287,568</th> <th>1,325,040 273,408 147,982 1,848,066 21,000 218,636 39,756 38,820 47,778 152,676 378,365 6,744 220,050</th> <th>M0 882 886 886 886 886 886 886 886 886 886</th> <th></th> <th></th>	115,165 804,803 9,145 95,212 17,313 16,905 20,807 78,350 378,356 6,744 220,050 36,165 287,568	1,325,040 273,408 147,982 1,848,066 21,000 218,636 39,756 38,820 47,778 152,676 378,365 6,744 220,050	M0 882 886 886 886 886 886 886 886 886 886		
766,908 158,243 147,982 1143,283 1143,283 1143,283 1143,283 1143,283 123,424 21,915 22,433 21,915 74,326 - - - - - - - - - - - - - - - - </td <td>115,165 804,803 9,145 95,212 17,313 16,905 20,807 78,350 378,356 6,744 220,050 36,165 287,568</td> <td>1,325,040 273,408 147,982 1,848,066 21,000 218,636 39,756 38,820 47,778 152,676 378,365 6,744 220,050</td> <td>M0 882 886 886 886 886 886 886 886 886 886</td> <td></td> <td></td>	115,165 804,803 9,145 95,212 17,313 16,905 20,807 78,350 378,356 6,744 220,050 36,165 287,568	1,325,040 273,408 147,982 1,848,066 21,000 218,636 39,756 38,820 47,778 152,676 378,365 6,744 220,050	M0 882 886 886 886 886 886 886 886 886 886		
158,243 147,982 1,043,263 1,143,263 1,18,55 12,3424 2,2,443 2,1915 74,326 3 3 4,915 3 3 3 4,915 3	115,165 804,803 9,145 95,212 17,313 16,905 20,807 78,350 378,356 6,744 220,050 36,165 287,568	273,408 147,982 1,848,066 21,000 218,636 39,756 38,820 47,778 152,676 152,676 378,365 6,744 220,050	282 282 283 284 285 285 285 285 285 285 285 285 285 285		
147.982 1,043.283 11,855 123.424 22,433 21,915 26,971 5 74,326 - - - <td>804,803 9,145 95,212 17,313 16,905 20,807 78,350 378,365 6,744 220,050 36,165 287,568</td> <td>147,982 1,848,066 21,000 218,636 39,756 38,820 47,778 152,676 378,365 6,744 220,050</td> <td>882 886 555 556 220 778 565 565 565</td> <td></td> <td></td>	804,803 9,145 95,212 17,313 16,905 20,807 78,350 378,365 6,744 220,050 36,165 287,568	147,982 1,848,066 21,000 218,636 39,756 38,820 47,778 152,676 378,365 6,744 220,050	882 886 555 556 220 778 565 565 565		
147,982 1,043,263 1,1,855 11,855 22,443 22,443 22,443 21,915 74,326 - <	9,145 95,212 17,313 16,905 20,807 78,350 378,365 6,744 220,050 36,165 287,568	1,848,066 21,000 218,636 39,756 38,820 47,778 152,676 378,365 6,744 220,050	066 500 536 556 520 778 576 565 544 550		
5 1,043,263 11,855 5 123,424 6 22,443 0 21,915 5 74,326 5 7 5 8 395,135 5 3,365 2 4,567	9,145 95,212 17,313 16,905 20,807 78,350 378,365 6,744 220,050 36,165 287,568	1,848,066 21,000 218,636 39,756 38,820 47,778 152,676 378,365 6,744 220,050	066 500 536 556 520 778 576 565 544 550		
111,855 122,424 22,443 22,443 21,915 26,971 74,326 74,326 - - - - - - - - - - - - - - - - - - -	9,145 95,212 17,313 16,905 20,807 78,350 378,365 6,744 220,050 36,165 287,568	21,000 218,636 39,756 38,820 47,778 152,676 378,365 6,744 220,050	000 036 056 0320 0576 055 055 054 050 050 050 050 050		
123,424 22,443 21,915 26,971 74,326 - - 3 395,135 3,396 4,597	95,212 17,313 16,905 20,807 78,350 378,365 6,744 220,050 36,165 287,568	218,636 39,756 38,820 47,778 152,676 378,365 6,744 220,050	336 756 320 778 376 385 744 950		
22,443 21,915 26,971 74,326 - - - - - - - - - - - - - - - - - - -	17,313 16,905 20,807 78,350 378,365 6,744 220,050 36,165 287,568	39,756 38,820 47,778 152,676 378,365 6,744 220,050	756 520 576 576 586 544 550		
21,915 3 26,971 3 74,326 4 - 3 - 3 395,135 3 395,135 3 3,395 4 4,597	16,905 20,807 78,350 378,365 6,744 220,050 36,165 287,568	38,820 47,778 152,676 378,365 6,744 220,050	320 778 365 544 350		
26,971 74,326 - - - - - - - - - - - - -	20,807 78,350 378,365 6,744 220,050 36,165 287,568	47,778 152,676 378,365 6,744 220,050	778 376 365 744 350		
3 74,326 5 - 7 - 8 - 8 - 8 - 8 - 8 - 8 - 8 - 8 - 8 - 9	78,350 378,365 6,744 220,050 36,165 287,568	152,676 378,365 6,744 220,050	376 365 744 350		
	378,365 6,744 220,050 36,165 287,568	378,365 6,744 220,050	365 744 050		
4 - 5 - 8 395,135 5 3,395 2 4,597	6,744 220,050 36,165 287,568	6,744 220,050	744 050		
 3 395,135 5 3,395 2 4,597	220,050 36,165 287,568	220,050	050		
- 3 395,135 5 3,395 2 4,597	36,165 287,568				
3 395,135 3 3,395 4,597	287,568	36,165	165		
3 395,135 3 3,395 4,597					
3,395 4,597					
3,395 4,597		682,703	703		
4,597	2,471	5,866			
	3.345	7,942			
	2,650,540	5,456,976			
48.73%	63.24%		Update in Synergen for new	year	
5,565,974	4,081,159			Wages per Payroll (Paylocity)	
5) (101,267)	(80,408)			Year End Payroll Accrual Entry	
				Current real end Payron Accidai	
5,551,500	4,003,032				
5,759,045	4,191,258		Non-union 3% - Union 2.5%		
% 57.8%					
	42.2%				
4 70 56.5%	42.2% 54 43.5%				
) 9 5 4 5	126,599 591,306	126,599 88,281 ,591,306 4,089,032 ,759,045 4,191,258	126,599 88,281 591,306 4,089,032 759,045 4,191,258 57.8% 42.2%	126,599 88,281 591,306 4,089,032 7559,046 4,191,258 Non-union 3% - Union 2.5% 57.8% 42.2%	126.599 68.281 Current Year end Payroli Accrual 591.396 4.089.032 759.045 4,191.258 Non-union 3% - Union 2.5% 57.8% 42.2%

2019 Budget YTD	218,636		
2019 - Union % (Based on Actual Participation at 01/01/2019) 2019 - Non-Union % (Based on Actual Participation @ 01/01/2019)	43.55% 56.45%	95.212 123.424	
2013- NorPolition // (Dased on Actual Faitucipation (@ 01/01/2013)	100.00%	218,636	
Grand Total Wages Calculation		0.50%	
Grand Total Wages Calculation Jnion Mon-Jnion	4,089,032 5,591,306	2.50%	4,191,258

Employer FICA/Medicare	682,703	actual + % wage increase
Union Non-Union	287,568 395,135	
	682,703	-
Group Pension: 401K	273,408	Budget
Union Non-Union	115,165 158,243	
	273,408	-
Vacation Earned YTD		
Jnion Carryover	32.776	33,595 2.50% 7.65%
Total including FICA & MED Tax		36,165

1604.01(a)(19) Balance Sheets and Income Statements for Previous Two Years

Pittsfield Aqueduct Company Profit & Loss Statement For the Twelve Months Ended December 31, 2019

						Provided pursuant to NHPUC Rule 1604.01(19)						
	1 Jan-19	2 Feb-19	3 Mar-19	4 Apr-19	5 May-19	6 Jun-19	7 Jul-19	8 Aug-19	9 Sep-19	10 Oct-19	11 Nov-19	12 Dec-19
Water Sales	Jall-13	1 60-13	IVIGI - 13	Ahi-19	Way-13	Jun-13	Jui-13	Aug-13	36h-13	001-13	1104-13	Dec-13
WATER SALES: BILLED REVENUE WATER SALES BILLED RECOUPMENT	(47,026.97)	(50,063.69)	(45,427.73)	(42,184.10)	(44,429.66)	(51,805.24)	(43,799.15)	(54,588.29)	(47,899.02)	(47,523.91)	(52,038.82)	(43,333.87)
WATER SALES: UNBILLED REVENUE WATER SALES-UNBILLED RECOUPMNT	6,228.00	5,422.00	(3,197.00)	(6,984.00)	694.00	4,228.00	(2,694.00)	(41.00)	(2,896.00)	3,502.00	4,650.00	(5,795.00)
FIRE PROTECTION REVENUE	(17,072.56)	(17,072.56)	(17,072.56)	(17,072.56)	(17,072.56)	(17,072.56)	(17,072.56)	(17,072.56)	(17,072.56)	(17,072.56)	(17,072.56)	(17,072.56)
CBFRR REVENUES	(12,213.25)	(12,213.25)	(12,213.25)	(12,213.25)	(12,213.25)	(12,213.25)	(12,213.25)	(12,213.25)	(12,213.25)	(12,213.25)	(12,213.25)	(12,213.25)
CBFRR REVENUES - CONTRA	12,213.25	12,213.25	12,213.25	12,213.25	12,213.25	12,213.25	12,213.25	12,213.25	12,213.25	12,213.25	12,213.25	12,213.25
	57,871.53	61,714.25	65,697.29	66,240.66	60,808.22	64,649.80	63,565.71	71,701.85	67,867.58	61,094.47	64,461.38	66,201.43
Other Operating Revenue												
MISC OPERATING REVENUE	(121.00) 121.00	(20.00) 20.00	(202.00) 202.00	(310.00) 310.00	(135.00) 135.00	(315.00) 315.00	(112.00) 112.00	(201.00) 201.00	(478.00) 478.00	(218.00) 218.00	(324.00) 324.00	(227.00) 227.00
Total Revenues	57992.53	61734.25	65899.29	66550.66	60943.22	64964.8	63677.71	71902.85	68345.58	61312.47	64785.38	66428.43
Production Expenses												
OTHER PROD LABOR: TREAT PLANT	-	-	-	-	-	-	-	-	-	-	-	-
OTHER PROD MAT&EXP: SRC/SUPPLY	0	0	0	0	0	0	0	0	0	0	0	0
SUPERINTENDENCE: WTP-PAC BENEFITS: WTP-PAC	0-	0	0 -	- 0	0	- 0	0 -	-	-	0	0	-
POWER PURCHASED: TRT PLT ELEC	783.29	953.53	913.95	866.69	767.42	604.99	483.16	541.40	498.01	484.16	553.78	581.64
OPER LABOR: TREATMENT PLANT	5,757.13	3,893.97	6,423.65	4,966.23	5,683.89	5,215.53	4,963.67	5,445.91	6,701.50	6,365.20	6,594.54	7,132.30
OPER EXP T PLANT: MAT & EXP	467.40	74.99	1,657.62	274.76	414.67	253.21	80.04	224.00	123.26	241.15	129.02	448.37
OPER EXP T PLANT: GAS/OIL	2,093.75	1,970.35	410.00	655.32	2,698.20	-	-	-	-	359.78	-	507.57
OPER EXP T PLANT: PHONE	77.21	189.01	189.01	186.12	186.05	186.05	189.30	190.41	190.41	190.88	190.77	228.30
MAINT STRUCT: TREATMENT PLANT	158.05	1,204.45	(1,140.27)	48.27	-	1,047.98	2,900.52	876.76	76.76	444.44	-	111.25
MAINT STRUCT: SOURCE OF SUPPLY	3,463.22	2,050.99	781.07	-	850.58	102.17	199.89	1,169.93	367.82	2,404.92	5,421.26	1,259.51
MAINT PUMP EQU: HIGH LIFT ELC BOOSTER STATION GENERAL MAINT	-	- 31.90	-	-	-	- 203.26	-	-	-	-	-	-
CHLORINE: TREATMENT PLANT	334.55	31.90	469.10	527.90	-	138.95	564.45	-	238.95	213.95	-	238.95
ALUM. SULFATE/FERRIC CHLORIDE	334.55	-	409.10	527.90	882.00	136.95	504.45	-	236.95	213.95	-	882.00
POLYMERS		_			002.00					_		002.00
CORROSION INHIBITOR	-	-	_	_	-	-	-	_	_	_	_	_
SODA ASH	-	891.00	-	-	-	-	-	-	-	-	-	-
LABORATORY EXPENSE	-	-	-	-	-	-	-	-	-	-	-	-
LAB EXPENSE: OUTSIDE TESTING	353.00	101.00	14.00	448.00	101.00	97.00	586.00	97.00	92.00	353.00	97.00	97.00
MAINT PROC EQU: TRT PLANT	-	-	92.39	230.00	1,840.39	-	92.05	375.54	-	-	1,152.99	1,415.38
MAINT PROC EQUIP: SCADA & OTHR	118.20	208.96	118.20	118.20	118.20	118.20	326.19	89.18	236.40	120.20	120.20	120.20
	13,605.80	11,570.15	9,928.72	8,321.49	13,542.40	7,967.34	10,385.27	9,010.13	8,525.11	11,177.68	14,259.56	13,022.47
Transmission & Distribution Expenses												
SUPERINTENDENCE: OPS-PAC	-	-	-	-	-	-	-	-	-	-	-	-
BENEFITS: OPS-PAC	-	-	-	-	-	-	-	-	-	-	-	-
MISC GEN EXPENSE/OPERATIONS MISC T&D MATERIALS & SUPPLIES	-	-	-	-	-	-	-	-	-	-	-	-
DUTY PAY		_								_		
METER OPERATING LABOR & EXP	559.58	810.51	443.47	113.17	29.94	2,004.61	684.93	1,096.30	305.60	826.82	- 1,817.35	628.89
MOLE: METER REMOVAL	-	-	-	-	-	-	-	-	-	-	-	-
OTHER EXPENSE ON CUST PREMISIS	142.56	-	259.20	-	-	-	-	-	-	-	-	-
SMALL TOOLS EXPENSE	57.60	-	-	15.97	4.99	-	-	-	-	-	-	-
TRANS/EXP: MISCELLANEOUS	-	-	-	-	-	-	-	-	-	-	-	-
GASOLINE	-	-	-	-	-	-	-	-	-	-	-	-
MAINT MAINS: REPAIRS	93.97	79.55	1,300.61	233.43	1,255.70	382.03	122.56	173.16	29.21	258.48	119.47	118.61
MAINT MAINS: GATE PROGRAM	-	-	-	-	-	-	-	-	-	-	-	-
MAINT MAINS: FLUSHING LN	-	-	-	-	-	-	-	-	-	-	-	-
MAINT GATES: INSPECTION: PAC	-		-	-		-				-		-
MAINTENANCE: SERVICES	554.38	3,430.31	134.74	118.85	1,291.63	9,220.59	5,825.61	2,105.60	56.56	4,104.37	8,733.96	1,024.94
MAINTENANCE: METERS MAINTENANCE: HYDRANTS-REPAIRS	352.14	-	126.74	-	66.63	50.91	50.91	6.92	118.82	-	247.70	178.24

MAINTENANCE: HYDRANTS-PAINTING	-	-	-	-	-	-	-	-	-	-	-	-
MAINTENANCE: HYDRANTS-INSPECTN MONITOR CONTRACTORS MARKING	1,354.26	126.74 31.68	411.90 286.54	704.61 288.62	124.51 1,092.24	196.62 708.36	226.33 497.27	228.28 483.67	322.48 422.43	509.04 546.83	188.31 345.06	250.62 64.00
MONITOR CONTRACTORS MARKING	3,114.49	4,478.79	2,963.20	1,474.65	3,865.64	12,563.12	7,407.61	4,093.93	1,255.10	6,245.54	345.06 11,451.85	2,265.30
	0,11110	1, 11 011 0	2,000.20	1, 11 1.00	0,000.01	12,000.12	,	1,000.00	1,200.10	0,210.01	11,101.00	2,200.00
Customer Accounts & Collection Expenses												
CUSTOMER ORDS: COLLECTIONS	-	-	-	-	-	-	-	22.68	(22.68)	-	-	-
CUSTOMER ORDS: COLLECTIONS	-	-	231.67		-	107.59	368.77	54.32	169.25	245.46	-	204.14
METER READING	126.74	51.78	126.74	124.51	50.91	133.26	124.51	60.02	124.51	133.26	133.26	124.51
METER READING: TRANSFERS	31.68	57.33	59.82	165.54	66.64	104.37	188.97	58.94	253.41	84.87	82.21	151.68
METER READING: EXCEPTIONS	-	-	103.56	-	-	-	-	-	-	66.63	-	-
BILLING & ACCOUNTING	-	-	-	- 280.01	-	- 626.96	-	-	-	-	-	- 913.26
BILLING & ACCOUNTING PUBLIC RELATIONS	631.72	502.15	558.28 12.29	280.01	601.55 11.12	020.90	602.02	879.05	419.16	630.05 24.00	570.19 51.58	12.29
UNCOLLECTABLE ACCOUNTS	- 65.00	30.97	12.29	-	394.41	399.36	1,744.81	-	-	24.00	1,020.01	442.09
SHOOLEE GTABLE AGGOONTO	855.14	642.23	1,092.36	571.11	1,124.63	1,371.54	3,029.08	1,075.01	943.65	1,184.27	1,857.25	1,847.97
Administrative and General Expense	000.14	012.20	1,002.00	071.11	1,121.00	1,011.04	0,020.00	1,070.01	010.00	1,101.27	1,001.20	1,011.01
OFFICE SUPPLIES & EXPENSE	9.17	11.30	9.50	6.65	15.80	11.95	5.50	7.00	11.80	7.50	5.00	14.45
OFFICE SUPPLIES & EXP: PHONE	299.76	292.89	296.41	296.20	296.20	296.21	296.50	297.39	297.39	297.40	297.39	297.66
OUTSIDE SERVICES	-	-	-	1.02	-	-	8,971.34	-	-	-	-	-
INSURANCE EXPENSE	815.65	964.15	889.90	889.89	889.89	889.89	889.89	889.89	889.89	887.07	889.90	867.51
REGULATORY COMMISSION EXPENSE	273.67	273.67	273.67	273.68	273.68	273.63	273.63	105.71	189.66	258.00	258.00	258.00
MEETING CONVENTION/MEMBSP FEES	-	-	-	-	-	-	-	-	-	-	-	-
LICENSING FEES	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00
PUBLIC RELATIONS	20.18	-	-	-	-	-	-	-	-	-	-	-
MEALS	-	-	-	-	-	-	-	-	-	-	-	-
MISCELLANEOUS GENERAL EXPENSE	-	181.00	-	-	-	-	-	-	-	-	-	-
CHARITABLE CONTRIBUTIONS MAINT: OFFICE FURNT & EQUIP	-	-	-	-	-	-	-	-	-	-	-	-
MAINT: OFFICE FURNT & EQUIP MAINT: MISC GENERAL EQUIP	-	-	-	-	-	-	-	-	-	-	-	-
MAINT COMPUTER EQUIP: PAC	-	-	-	-	-	-	-	-	-	-	-	-
	1,443.43	1,748.01	1,494.48	1,492.44	1,500.57	1,496.68	10,461.86	1,324.99	1,413.74	1,474.97	1,475.29	1,462.62
Inter Div Management Fee	1,110.10	1,740.01	1,101.10	1,102.11	1,000.01	1,100.00	10,101.00	1,021.00	1,410.14	1,111.01	1,110.20	1,102.02
MAINT COMPUTER EQUIP: PAC	379.00	419.00	500.00	406.00	398.00	370.00	276.00	342.00	332.00	317.00	412.00	367.00
MAINT COMPUTER EQUIP: PAC	12,366.00	10,361.00	22,921.00	13,798.00	13,746.00	12,941.00	13,635.00	13,145.00	12,020.00	13,510.00	15,713.00	15,863.00
MAINT COMPUTER EQUIP: PAC	-	-	-	-	-	-	-	-	-	-	-	-
	12,745.00	10,780.00	23,421.00	14,204.00	14,144.00	13,311.00	13,911.00	13,487.00	12,352.00	13,827.00	16,125.00	16,230.00
Total Operating Expenses	31,763.86	29,219.18	38,899.76	26,063.69	34,177.24	36,709.68	45,194.82	28,991.06	24,489.60	33,909.46	45,168.95	34,828.36
Depreciation Expense	0.400.00	0 407 74	0 474 04	0 470 00	0 474 00	0.400.00	0.400.04	0 404 65	0 400 77	0 540 05	0 405 47	0.005.00
DEPRECIATION EXPENSE: PAC	8,468.02 8,468.02	8,467.71 8,467.71	8,474.61 8,474.61	8,473.60 8,473.60	8,474.06 8,474.06	8,468.00 8,468.00	8,466.34 8,466.34	8,494.65 8,494.65	8,496.77 8,496.77	8,516.95 8,516.95	8,405.47 8,405.47	8,365.98 8,365.98
	0,400.02	0,407.71	0,474.01	0,473.00	0,474.00	0,400.00	0,400.34	0,494.00	0,490.77	6,510.95	0,405.47	0,303.90
Amortization Expense: CIAC												
AMORTIZATION EXPENSE: CIAC	(1,915.46)	(1,915.39)	(1,915.46)	(1,915.39)	(1,915.38)	(1,915.47)	(1,915.46)	(1,915.39)	(1,915.45)	(1,915.39)	(1,915.37)	(1,915.47)
	() /	())		())	()/	()	()	()/	(),,	() /	(),/	()
Amortization Expense												
AMORT EXP - DEFERRED CHARGES	257.30	257.31	257.31	257.31	255.99	257.32	257.30	257.31	257.30	257.31	257.30	257.32
AMORT: ACQUISITION PREMIUM	2,800.17	2,868.09	2,868.07	2,868.07	2,868.08	2,868.08	2,868.08	2,868.07	2,868.09	2,868.07	2,868.07	2,868.09
	3,057.47	3,125.40	3,125.38	3,125.38	3,124.07	3,125.40	3,125.38	3,125.38	3,125.39	3,125.38	3,125.37	3,125.41
Taxes Other than Income Tax												
LOCAL PROPERTY TAXES	15,828.09	15,828.09	15,828.06	15,828.09	15,810.09	15,810.09	15,810.09	15,810.09	15,792.07	15,311.42	15,311.42	14,724.39
OTHER TAXES	- 15,828.09	- 15,828.09	- 15,828.06	- 15,828.09	- 15,810.09	- 15,810.09	- 15,810.09	- 15,810.09	- 15,792.07	- 15,311.42	- 15,311.42	1,258.00 15,982.39
	15,620.09	15,626.09	15,626.00	15,626.09	15,610.09	15,610.09	15,610.09	15,610.09	15,792.07	15,511.42	15,511.42	10,902.09
GAIN FROM FORGIVENESS SRF DEBT	(119.19)	(119.19)	(119.19)	(119.19)	(119.19)	(119.19)	(119.19)	(119.19)	(119.19)	(119.19)	(119.19)	(119.19)
	()	()	()	()	()	()	()	()	()	()	()	()
Income Tax												
PROV/FED INC TAX/CURRENT	18.33	1,240.13	168.20	2,797.67	153.90	432.73	(1,472.49)	3,270.14	3,465.51	383.92	(1,097.05)	(1,235.99)
PROVS FOR NH BUS PRFTS TAX CUR	7.49	506.55	68.69	1095.41	61.14	171.9	-584.96	1299.09	1376.69	152.51	-435.8	-1604.71
PROV FEDL INCOME TAX DEFERRED	-	0	0	0	0	0	0	0	0	0	0	3468
PROV NH INCOME TAX DEFERRED	-	-	-	-	-	-	-	-	-	-	-	(178.00)

	25.82	1,746.68	236.89	3,893.08	215.04	604.63	(2,057.45)	4,569.23	4,842.20	536.43	(1,532.85)	449.30
Total Operating Deducts	57,108.61	56,352.48	64,530.05	55,349.26	59,765.93	62,683.14	68,504.53	58,955.83	54,711.39	59,365.06	68,443.80	60,716.78
Net Operating Income	883.92	5,381.77	1,369.24	11,201.40	1,177.29	2,281.66	(4,826.82)	12,947.02	13,634.19	1,947.41	(3,658.42)	5,711.65
MISC NON-OPERATING INCOME(EXP) MISC NONUTILITY EXPENSES Other Income	- - -											
AFDUC-INT(DEBT) COMPONENT-PAC AFUDC - EQUITY COMPONENT - PAC	-	-	-	-	-	-	-	-	-	-	-	-
INTERCOMPANY INTEREST INTEREST EXP: BONDS & NOTES AMORTIZATION OF DEBT EXPENSE INTEREST INCOME	3,277.86 274.94 62.33	3,247.85 274.42 62.33	3,268.34 273.90 62.33	3,209.20 273.38 62.33	3,131.21 272.85 62.33	3,187.22 272.33 62.33	3,246.49 271.80 62.33	3,179.50 271.27 62.33	3,132.30 270.74 62.33	3,038.68 270.21 62.33	3,004.62 269.68 62.33	3,049.73 269.15 62.33
Total Interest	3,615.13	3,584.60	3,604.57	3,544.91	3,466.39	3,521.88	3,580.62	3,513.10	3,465.37	3,371.22	3,336.63	3,381.21
Net Income Before Dividends	(2,731.21)	1,797.17	(2,235.33)	7,656.49	(2,289.10)	(1,240.22)	(8,407.44)	9,433.92	10,168.82	(1,423.81)	(6,995.05)	2,330.44
DIVIDENDS: COMMON STOCK	-	-	-	-	-	-	-	-	-	-	-	-
Net Income (Or Loss) - YTD	(2,731.21)	(934.04)	(3,169.37)	4,487.12	2,198.02	957.80	(7,449.64)	1,984.28	12,153.10	10,729.29	3,734.24	6,064.68
Net Income (Or Loss) - MTD	(2,731.21)	1,797.17	(2,235.33)	7,656.49	(2,289.10)	(1,240.22)	(8,407.44)	9,433.92	10,168.82	(1,423.81)	(6,995.05)	2,330.44

Pittsfield Aqueduct Company Balance Sheet For the Year Ended December 31, 2019

	For the Year Ended December 31, 2019												
		1	2	3	4	5	6	7	8	9	Provided pur 10	suant to NHPUC	Rule 1604.01(19) 12
	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19
Assets													
Land LAND	44.180.00	44.180.00	44.180.00	44.180.00	44.180.00	44,180,00	44.180.00	44.180.00	44.180.00	44,180,00	44.180.00	44.180.00	44.180.00
EASEMENTS - PITTSFIELD	16,153.19	16,153.19	16,153.19	16,153.19	16,153.19	16,153.19	16,153.19	16,153.19	16,153.19	16,153.19	16,153.19	16,153.19	16,153.19
	60,333.19	60,333.19	60,333.19	60,333.19	60,333.19	60,333.19	60,333.19	60,333.19	60,333.19	60,333.19	60,333.19	60,333.19	60,333.19
SOURCE OF SUPPLY STRUCTURES	71.250.05	71.250.05	71.250.05	71.250.05	71.250.05	71.250.05	71.250.05	71.250.05	71.250.05	71.250.05	71.250.05	71.250.05	71.250.05
GENERAL & MISC STRUCTURES	1,080.00	1,080.00	1,080.00	1,080.00	1,080.00	1,080.00	1,080.00	1,080.00	1,080.00	1,080.00	1,080.00	1,080.00	1,080.00
WATER TREATMENT STRUCTURES	935,239.12	935,239.12	935,239.12	935,239.12	935,239.12	935,239.12	935,239.12	935,239.12	935,239.12	935,239.12	935,239.12	935,239.12	935,239.12
RESERVOIRS & DAMS	137,331.46	137,331.46	137,331.46	137,331.46	137,331.46	137,331.46	137,331.46	137,331.46	137,331.46	137,331.46	137,331.46	137,331.46	137,331.46
LAKE, RIVER & OTHER INTAKE-PAC	38,270.60	38,270.60	38,270.60	38,270.60	38,270.60	38,270.60	38,270.60	38,270.60	38,270.60	38,270.60	38,270.60	38,270.60	38,270.60
SUPPLY MAINS: PITTSFIELD	309,352.72	309,352.72	309,352.72	309,352.72	309,352.72	309,352.72	309,352.72	309,352.72	309,352.72	309,352.72	309,352.72	309,352.72	309,352.72
	1,492,523.95	1,492,523.95	1,492,523.95	1,492,523.95	1,492,523.95	1,492,523.95	1,492,523.95	1,492,523.95	1,492,523.95	1,492,523.95	1,492,523.95	1,492,523.95	1,492,523.95
Equipment POWER GENERATED EQUIP: PAC	55,407.06	55.407.06	55.407.06	55,407.06	55,407.06	55.407.06	55,407.06	55,407.06	55,407.06	55,407.06	55,407.06	55,407.06	55.407.06
ELECTRIC PUMPING EQUIPMENT	1,651.09	1,651.09	1,651.09	1,651.09	1,651.09	1,651.09	1,651.09	1,651.09	1,651.09	1,651.09	1,651.09	1,651.09	1,651.09
PUMPING EQUIP: PUMPS - PAC	14,105.04	14,105.04	14,105.04	14,105.04	14,105.04	14,105.04	14,105.04	15,425.94	15,425.94	15,425.94	15,425.94	15,425.94	15,425.94
PURIFICATION SYSTEM EQUIPMENT WATER TREATMENT EQUIPMENT: PAC	- 17,042.89	- 17,042.89	- 17,042.89	- 17,042.89	- 17,042.89	- 17,042.89	- 17,042.89	- 17,042.89	- 17,042.89	- 17,042.89	- 17,042.89	- 17,042.89	- 17,042.89
WATER TREATMENT EQUIPMENT. PAC WTP EQUIPMENT: MEDIA - PAC	41.963.48	41.963.48	41.963.48	41.963.48	41.963.48	41.963.48	41.963.48	41.963.48	41.963.48	41.963.48	41.963.48	41.963.48	41.963.48
	130,169.56	130,169.56	130,169.56	130,169.56	130,169.56	130,169.56	130,169.56	131,490.46	131,490.46	131,490.46	131,490.46	131,490.46	131,490.46
Transmission & Distribution	F 000 00	F 000 00	F 000 00	5 000 00	F 000 00	F 000 00	5 000 00	5 000 00	F 000 00	5 000 00	F 000 00	F 000 00	5 000 00
PAVEMENTS - GENERAL PAVEMENTS - TRANS MAINS	5,000.00 2,003.77	5,000.00 2,003.77	5,000.00 2,003.77	5,000.00 2,003.77	5,000.00 2,003.77	5,000.00 2,003.77	5,000.00 2,003.77	5,000.00 2,003.77	5,000.00 2,003.77	5,000.00 2,003.77	5,000.00 2,003.77	5,000.00 2,003.77	5,000.00 2,003.77
PAVEMENTS - DIST MAINS	124,788.30	124,788.30	124,788.30	124,788.30	124,788.30	124,788.30	124,788.30	124,788.30	124,788.30	124,788.30	124,788.30	124,788.30	124,788.30
PAVEMENTS - GATE VALVES	2,833.21	2,833.21	2,833.21	2,833.21	2,833.21	2,833.21	2,833.21	2,833.21	2,833.21	2,833.21	2,833.21	2,833.21	2,833.21
MAINS: 6" & LARGER	641,868.45	641,868.45	641,868.45	641,868.45	641,868.45	641,868.45	641,868.45	641,868.45	641,868.45	641,868.45	642,373.35	642,373.35	642,373.35
DEVEL INSTAL MAINS-6" & LARGER	316,734.00	316,734.00	316,734.00	316,734.00	316,734.00	316,734.00	316,734.00 216.00	316,734.00	316,734.00	316,734.00	316,734.00	316,734.00	316,734.00
MAINS: 4" & UNDER GATES: 4" & UNDER	216.00 9,998.74	216.00 9,998.74	216.00 9,998.74	216.00 9,998.74	216.00 9,998.74	216.00 9,998.74	9,998.74	216.00 9,998.74	216.00 9,998.74	216.00 9,998.74	216.00 9,998.74	216.00 9,998.74	216.00 9,998.74
GATES: 6" & LARGER	54,829.76	54,829.76	54,829.76	54,829.76	54,829.76	54,829.76	54,829.76	54,829.76	54,829.76	54,829.76	54,829.76	54,829.76	54,829.76
GATES: UNKNOWN SIZE	284.49	284.49	284.49	284.49	284.49	284.49	284.49	284.49	284.49	284.49	284.49	284.49	284.49
DEVEL INSTAL MAINS: 4" & UNDER	-	-	-	-	-	-	-	-	-	-	-	-	-
MAINS: UNKNOWN SIZE DEVEL INSTAL MAINS:UNKNOWN SZ	1,018,899.48 176,678.50	1,018,899.48 176,678.50	1,018,899.48 176,678.50	1,018,899.48 176,678.50	1,018,899.48 176,678.50	1,018,899.48 176,678.50	1,018,899.48 176,678.50	1,018,899.48 176,678.50	1,018,899.48 176,678.50	1,018,899.48 176,678.50	1,018,899.48 176,678.50	1,018,899.48 176,678.50	1,018,899.48 176,678.50
PAVING - SERVICES	3,700.02	3,700.02	3,700.02	3,700.02	3,700.02	3,700.02	3,700.02	3,700.02	3,700.02	3,700.02	3,700.02	3,700.02	3,700.02
NEW SERVICES	112,957.63	112,957.63	112,957.63	112,957.63	112,957.63	112,957.63	112,957.63	112,957.63	112,957.63	112,842.07	112,842.07	117,207.78	117,207.78
RENEWED SERVICES	62,052.18	62,052.18	62,052.18	67,128.44	67,128.44	67,128.44	67,128.44	67,128.44	67,128.44	67,128.44	67,128.44	67,128.44	67,128.44
METERING EQUIPMENT	84,925.75	85,000.34	85,000.34	84,805.08	84,805.08	84,805.08	84,103.92	84,178.51	84,178.51	84,178.65 61.807.32	84,171.84	84,470.21	83,959.14
RADIOS FOR METERING FIRE PROT EQUIP: HYDRANTS	61,709.75 90,328.27	61,709.75 90,328.27	61,709.75 90,328.27	61,614.75 90,328.27	61,614.75 90,328.27	61,708.57 90,328.27	61,613.56 90,328.27	61,710.44 90,328.27	61,807.32 90,328.27	90,328.27	61,904.20 90,328.27	62,105.00 90,328.27	61,912.24 90,328.27
HYDRANTS - PAVING	184.00	184.00	184.00	184.00	184.00	184.00	184.00	184.00	184.00	184.00	184.00	184.00	184.00
HYDRANTS: CIAC	14,550.00	14,550.00	14,550.00	14,550.00	14,550.00	14,550.00	14,550.00	14,550.00	14,550.00	14,550.00	14,550.00	14,550.00	14,550.00
OTHER PLANT & MISC EQUIP: PAC	1,495.00	1,495.00	1,495.00	1,495.00	1,495.00	1,495.00	1,495.00	1,495.00	1,495.00	1,495.00	1,495.00	1,495.00	1,495.00
Miscellaneous Equipment	2,786,037.30	2,786,111.89	2,786,111.89	2,790,897.89	2,790,897.89	2,790,991.71	2,790,195.54	2,790,367.01	2,790,463.89	2,790,348.47	2,790,943.44	2,795,808.32	2,795,104.49
SHOP EQUIPMENT	9,687.95	9,687.95	9,687.95	9,687.95	9,687.95	9,687.95	9,687.95	9,687.95	9,687.95	9,687.95	9,687.95	9,687.95	9,687.95
LABORATORY EQUIPMENT	33,352.88	33,352.88	33,352.88	33,352.88	33,352.88	33,352.88	33,352.88	33,352.88	33,352.88	33,352.88	33,352.88	33,352.88	31,159.42
COMMUNICATION EQUIPMENT - PAC	25,202.85	25,202.85	25,202.85	25,202.85	25,202.85	25,202.85	25,202.85	25,202.85	30,527.02	30,662.09	30,662.09	30,662.09	30,662.09
COMPUTER EQUIPMENT MISCELLANEOUS GENERAL EQUIP	24,555.64 16.974.54	24,555.64 16.974.54	24,555.64 16.974.54	24,555.64 16.974.54	24,555.64 16.974.54	24,555.64 16.974.54	24,555.64 16,974,54	24,555.64 16.974.54	24,555.64 16.974.54	24,555.64 16.974.54	24,555.64 16.974.54	24,555.64 16.974.54	24,555.64 16.974.54
	109,773.86	109,773.86	109,773.86	109,773.86	109,773.86	109,773.86	109,773.86	109,773.86	115,098.03	115,233.10	115,233.10	115,233.10	113,039.64
Intangible Plant													
ORGANIZATION EXPENSE	75,550.65 75.550.65	75,550.65 75.550.65	75,550.65 75.550.65	75,550.65 75,550.65	75,550.65 75,550.65	75,550.65 75.550.65	75,550.65 75.550.65	75,550.65 75,550.65	75,550.65 75,550.65	75,550.65 75.550.65	75,550.65 75,550.65	75,550.65 75,550.65	75,550.65 75,550.65
	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65
Total Plant in Service	4,654,388.51	4,654,463.10	4,654,463.10	4,659,249.10	4,659,249.10	4,659,342.92	4,658,546.75	4,660,039.12	4,665,460.17	4,665,479.82	4,666,074.79	4,670,939.67	4,668,042.38
Accumulated Depreciation													
ACCUMULATED DEPRECIATION: PAC	(1,906,047.48)	(1,914,515.50)	(1,922,983.21)	(1,931,287.55)	(1,939,761.15)	(1,948,235.21)	(1,956,137.48)	(1,964,603.82)	(1,973,098.47)	(1,981,483.68)	(1,989,977.42)	(1,998,382.89)	(2,005,170.77)
ACCUM DEPREC: COST OF REM -PAC	241,875.23	241,883.52	241,883.52	242,447.55	242,447.55	242,447.55	242,447.55	242,455.84	242,455.84	242,464.13	242,528.52	242,561.67	242,583.93
ACCUM DEPRECIATION: LOSS -PAC	191,954.99	191,954.99	191,954.99	192,074.98	192,074.98	192,074.98	192,305.42	192,305.42	192,305.42	192,383.87	192,442.06	192,442.06	194,061.95
	1,472,217.26	1,480,676.99	1,489,144.70	1,496,765.02	1,505,238.62	1,513,712.68	1,521,384.51	1,529,842.56	1,538,337.21	1,546,635.68	1,555,006.84	1,563,379.16	1,568,524.89
Net Plant in Service	3,182,171.25	3,173,786.11	3,165,318.40	3,162,484.08	3,154,010.48	3,145,630.24	3,137,162.24	3,130,196.56	3,127,122.96	3,118,844.14	3,111,067.95	3,107,560.51	3,099,517.49
Construction Work in Progress													
CWIP: CONTRACTOR CLEARING -PAC	6,707.50	6,707.50	6,707.50	6,707.50	6,707.50	6,707.50	6,707.50	12,031.67	6,842.57	6,707.50	6,176.50	6,176.50	6,176.50

Total Plant	3,188,878.75	3,180,493.61	3,172,025.90	3,169,191.58	3,160,717.98	3,152,337.74	3,143,869.74	3,142,228.23	3,133,965.53	3,125,551.64	3,117,244.45	3,113,737.01	3,105,693.99
Current Assets													
Cash PETTY CASH: PITTSFIELD/NC CASH: BANK OF AMERICA OPERATNG	-	-	-	-	-	-	-	-	-	-	-	-	-
A/R: BILLED WATER REVENUE A/R: MISCELLANEOUS	39,644.09 1,939.36	18,219.46 1,939.36	46,627.37 1,939.36	40,333.50 909.36	39,862.86 -	17,248.64 -	46,525.06 -	25,662.40	49,743.72	41,126.13	19,347.91 -	51,483.40 -	25,221.33 587.00
ALLOWANCE FOR DOUBTFUL ACCTS A/R: UNBILLED WATER REVENUE	(475.29) 79,549.00	(500.00) 73,321.00	(500.00) 67,899.00	(500.00) 71,096.00	(500.00) 78,080.00	(500.00) 77,386.00	(500.00) 73,158.00	(500.00) 75,852.00	(500.00) 75,893.00	(500.00) 78,789.00	(500.00) 75,287.00	(500.00) 70,637.00	(500.00) 76,432.00
A/R UNBILLED REV: RECOUPMENT AR: UNBILLED REV RECOUP 2009	-	-	-	-	-	-	-	-	-	-	-	-	-
Inventory & Supplies													
INVENTORY: PIPES & FITTINGS INVENTORY: METERS - PAC	-	-	-	-	-	-	-	-	-	-	-	-	-
INVENTORY: PAC	-	-	-	-	-	-	-	-	-	-	-	-	-
Prepaid Expenses & Other													
PREPAID INSURANCE PREPAID PROPERTY TAXES-PAC	83.33	83.33	410.82	1,888.36	2,014.38	2,140.40	2,266.42	2,392.44	2,518.46	2,644.48	1,757.41	867.51	
PREPAID EXPENSES	150.00	672.33	373.66	74.99	597.31	298.63	300.00	275.00	439.66	225.00	716.00	433.00	150.00
PREPAID PROPERTY TAXES	42,523.99 42,757.32	28,349.32 29,104.98	14,174.65 14,959.13	1,963.35	2,611.69	56,608.66 59,047.69	42,451.99 45,018.41	28,295.32 30,962.76	14,138.65 17,096.77	2,869.48	2,473.41	54,632.00 55,932.51	40,974.00 41,124.00
Total Current Assets	163,414.48	122,084.80	130,924.86	113,802.21	120,054.55	153,182.33	164,201.47	131,977.16	142,233.49	122,284.61	96,608.32	177,552.91	142,864.33
Other Assets													
Other Deferred Charges ACQUISITION PREMIUM - MARA	1,220,574.84	1,217,774.67	1,214,906.58	1,212,038.51	1,209,170.44	1,206,302.36	1,203,434.28	1,200,566.20	1,197,698.13	1,194,830.04	1,191,961.97	1,189,093.90	1,186,225.81
SARBANES-OXLEY TILTON HILL ROAD MAIN BREAK	-	-	-	-	-	-	-	-	-	-	-	-	-
MAIN BREAK - OCTOBER 2003 SOUTH MAIN LEAK RESEARCH	-	-	-	-	-	-	-	-	-	-	-	-	-
ABATEMENT GRANT APPLICATION - 2008	8,971.34	8,971.34	8,971.34	8,971.34	8,971.34	8,971.34	8,971.34	-	-	-	-	-	-
LOUDON RD MAIN BREAK	-	-	-	-	-	-	-	-	-	-	-	-	-
FAIRVIEW ROAD MAIN BREAK RATE CASE EXPENSE: 2007	-	-	-	-	-	-	-	-	-	-	-	-	-
2010 DEFERRED RATE CASE EXP RATE CASE EXPENSE: 2012	-	-	-	-	-	-	-	-	-	-	-	-	-
CONCORD HILL ROAD SERVICE REPR EMINENT DOMAIN	- 3,668.50	- 3,668.50	- 3,668.50	- 3,668.50	- 3,668.50	- 3,668.50	- 3,668.50	3,668.50	3,668.50	3,668.50	- 3,668.50	- 3,668.50	- 3,668.50
WEB SITE UPGRADE 2006 WEB-SITE UPGRADE 2011	-	-	-	-	-	-	-	-	-	-	-	-	-
BERRY POND BATHYMETRIC SURVEY	8,247.53	7,990.23	7,732.92	7,475.61	7,218.30	6,962.31	6,704.99	6,447.69	6,190.38	5,933.08	5,675.77	5,418.47	5,161.15
BERRY POND BATHYMETRIC SURVEY EMINENT DOMAIN ALLOWANCE	(3,668.50) 1,237,793.71	(3,668.50) 1,234,736.24	(3,668.50) 1,231,610.84	(3,668.50) 1 ,228,485.46	(3,668.50) 1,225,360.08	(3,668.50) 1 ,222,236.01	- (3,668.50) 1 ,219,110.61	(3,668.50) 1,207,013.89	(3,668.50) 1,203,888.51	(3,668.50) 1 ,200,763.12	(3,668.50) 1 ,197,637.74	(3,668.50) 1 ,194,512.37	(3,668.50) 1 ,191,386.96
ACQUISITION PREMIUM - MARA	-	-	-	-	-	-	-	-	-	-	-	-	-
UNAMORTIZED DEBT EXPENSE	21,953.11	21,890.78	21,828.45	21,766.12	21,703.79	21,641.46	21,579.13	21,516.80	21,454.47	21,392.14	21,329.81	21,267.48	21,205.15
Total Other Assets	1,259,746.82	1,256,627.02	1,253,439.29	1,250,251.58	1,247,063.87	1,243,877.47	1,240,689.74	1,228,530.69	1,225,342.98	1,222,155.26	1,218,967.55	1,215,779.85	1,212,592.11
Total Assets	4,612,040.05	4,559,205.43	4,556,390.05	4,533,245.37	4,527,836.40	4,549,397.54	4,548,760.95	4,502,736.08	4,501,542.00	4,469,991.51	4,432,820.32	4,507,069.77	4,461,150.43
Equity and Liabilities													
Shareholder's Equity													
COMMON STOCK ADDITIONAL PAID IN CAPITAL	(100.00) (1,935,317.84)	(100.00) (1,935,317.84)	(100.00) (1,899,595.84)	(100.00) (1,899,595.84)	(100.00) (1,899,595.84)	(100.00) (1,899,595.84)	(100.00) (1,899,595.84)	(100.00) (1,899,595.84)	(100.00) (1,899,595.84)	(100.00) (1,899,595.84)	(100.00) (1,899,595.84)	(100.00) (1,899,595.84)	(100.00) (1,899,595.84)
RETAINED EARNINGS BEG - PAC	23,553.03	137,453.78	137,453.78	137,453.78	137,453.78	137,453.78	137,453.78	137,453.78	137,453.78	137,453.78	137,453.78	137,453.78	137,453.78
Net Profit or Loss	113,900.75	2,731.21	934.04	3,169.37	(4,487.12)	(2,198.02)	(957.80)	7,449.64	(1,984.28)	(12,153.10)	(10,729.29)	(3,734.24)	(6,064.68)
Total Equity	(1,797,964.06)	(1,795,232.85)	(1,761,308.02)	(1,759,072.69)	(1,766,729.18)	(1,764,440.08)	(1,763,199.86)	(1,754,792.42)	(1,764,226.34)	(1,774,395.16)	(1,772,971.35)	(1,765,976.30)	(1,768,306.74)

LTD:SRF CATAMOUNT ROAD LTD:FORGIVABLE DEBT - SRF CATAMOUNT ROAD Long Term Debt	(124,170.69) (40,287.01) (164,457.70)	(123,961.69) (40,167.82) (164,129.51)	(123,752.69) (40,048.63) (163,801.32)	(123,542.69) (39,929.44) (163,472.13)	(123,331.69) (39,810.25) (163,141.94)	(123,119.69) (39,691.06) (162,810.75)	(122,906.69) (39,571.87) (162,478.56)	(122,693.69) (39,452.68) (162,146.37)	(122,479.69) (39,333.49) (161,813.18)	(122,264.69) (39,214.30) (161,478.99)	(122,048.69) (39,095.11) (161,143.80)	(121,831.69) (38,975.92) (160,807.61)	(121,614.69) (38,856.73) (160,471.42)
Current Liabilties													
CURRENT PORTION LTD: CATAMOUNT RD	(2,443.00) (1,430.28) (3,873.28)	(2,453.00) (1,430.28) (3,883.28)	(2,462.00) (1,430.28) (3,892.28)	(2,471.00) (1,430.28) (3,901.28)	(2,480.00) (1,430.28) (3,910.28)	(2,490.00) (1,430.28) (3,920.28)	(2,500.00) (1,430.28) (3,930.28)	(2,509.00) (1,430.28) (3,939.28)	(2,518.00) (1,430.28) (3,948.28)	(2,527.00) (1,430.28) (3,957.28)	(2,537.00) (1,430.28) (3,967.28)	(2,547.00) (1,430.28) (3,977.28)	(2,556.00) (1,430.28) (3,986.28)
-		,		., ,	., ,				., ,				., ,
ACCOUNTS PAYABLE CLEARING ACCOUNT	(1,955.60)	(2,623.88)	(1,096.20)	(4,799.75)	(7,541.98)	(87,688.75)	(285.91)	(1,214.20)	110.11 -	(894.81)	(3,610.21)	(93,007.69)	(3,262.24)
LOCAL PROPERTY TAXES PAYABLE ACCRUED TAXES ACCRUED INTEREST PAYABLE	(2,257.91)	(1,653.42) (2,257.91)	(3,306.84) (2,257.91)	0.75 (2,257.91)	(15,827.34) (2,257.91)	1,653.91 (2,257.91)	0.49 (2,257.91)	(1,652.93) (2,257.91)	(3,306.35) (2,257.91)	0.23 (2,257.91)	(15,311.19) (2,257.91) -	1,653.39 (2,257.91)	-
MISC CURRENT ACCRUED LIABILITY	(316.97)	(1,355.89)	(5,374.57)	(335.06)	(352.43)	(254.53)	(6,817.29)	(5,802.96)	(248.51)	(205.16)	(325.16)	(523.91)	(318.68)
ACCRUED LIABILITY - RETAINAGE	(4,530.48)	(7,891.10)	(12,035.52)	(7,391.97)	(25,979.66)	(88,547.28)	(9,360.62)	(10,928.00)	(5,702.66)	(3,357.65)	(21,504.47)	(94,136.12)	(3,580.92)
HARDSHIP CASES: CREDITS	-	-	-	-	-	-	-	-	-	-	-	-	-
INTERCO PAY/REC: PAC/TSC INTERCO PAY/REC: PAC/PWS	-	-	-	-	-	- 63.08	- 63.24	- 63.40	- 63.55	- 63.70	- 63.83	- 63.95	-
AP INTERCO PAY/REC:PEU/PAC	-	(334.55)	(334.55)	(334.55)	(334.55)	(334.55)	(334.55)	(3,099.00)	(4,699.00)	(4,460.05)	(6,674.00)	(12,976.99)	-
INTERCO PAY/REC: PAC/PWW INTERCO LOAN PWW/PAC: RSF	- (12,954.74)	(25,931.34) (12,954.74)	(48,421.51) (12,954.74)	(92,457.95) (12,954.74)	(114,970.52) (12,954.74)	(141,260.86) (12,954.74)	(168,609.48) (12,954.74)	(199,694.20) (12,954.74)	(226,148.02) (12,954.74)	(249,157.47) (12,954.74)	(275,415.72) (12,954.74)	(311,403.84) (12,954.74)	- (12,954.74)
INTERCO PAY/REC: PAC/PEU	-	(0.42)	(1.12)	(1.96)	(12,001111) (2.80)	(3.64)	(1,005.74)	(1,002.58)	(1,013.81)	(1,026.63)	(1,070.40)	(1,090.83)	-
INTERCO ADV-PCP PROM NOTE 5/18 INTERCO LOAN PAC - INTERGRATED	-	-	-	-	-	-	-	-	-	-	-	-	-
NOTE PAYABLE - PCP 2018 1.1M LOAN	(1,147,728.22)	(1,145,659.78)	(1,143,585.80)	(1,141,506.31)	(1,139,421.27)	(1,137,330.67)	(1,135,234.49)	(1,133,132.73)	(1,131,025.36)	(1,128,912.37)	(1,126,793.74)	(1,124,669.47)	(1,122,539.53)
ST NOTE PAYABLE - PCP 2018 1.1M LOAN	(24,396.45)	(24,461.50)	(24,526.75)	(24,592.15)	(24,657.73)	(24,723.48)	(24,789.41)	(24,855.51)	(24,921.79)	(24,988.25)	(25,054.89)	(25,121.70)	(25,188.69)
INTERCO PAY/REC: PAC/PCP	(72,615.09)	2,878.21	(5,839.26)	50,214.08	100,124.60	160,808.66	105,101.02	173,857.37	203,044.26	260,914.56	339,032.03	368,431.58	(1,719.17)
Total Current Liabilities	(1,266,098.26)	(1,218,238.50)	(1,251,591.53)	(1,232,926.83)	(1,222,106.95)	(1,248,203.76)	(1,251,055.05)	(1,215,685.27)	(1,207,305.85)	(1,167,836.18)	(1,134,339.38)	(1,217,835.44)	(1,169,969.33)
Other Deferred Credits													
DEFERRED INCOME TAXES	(508,474.08)	(508,474.08)	(508,474.08)	(508,474.08)	(508,474.08)	(508,474.08)	(508,474.08)	(508,474.08)	(508,474.08)	(508,474.08)	(508,474.08)	(508,474.08)	(510,342.07)
ACCUM DEFERRED INC TAX - REG LIAB	(201,217.00)	(201,217.00)	(201,217.00)	(201,217.00)	(201,217.00)	(201,217.00)	(201,217.00)	(201,217.00)	(201,217.00)	(201,217.00)	(201,217.00)	(201,217.00)	(201,217.00)
	(709,691.08)	(709,691.08)	(709,691.08)	(709,691.08)	(709,691.08)	(709,691.08)	(709,691.08)	(709,691.08)	(709,691.08)	(709,691.08)	(709,691.08)	(709,691.08)	(711,559.07)
CONTRIBUTIONS IN AID OF CONST	(750,286.50)	(750,286.50)	(750,286.50)	(750,286.50)	(750,286.50)	(750,286.50)	(750,286.50)	(750,286.50)	(750,286.50)	(750,286.50)	(750,286.50)	(750,286.50)	(750,286.50)
CIAC-WATER FILTRATION GRANT	(398,349.91) (1,148,636.41)	(398,349.91) (1,148,636.41)	(398,349.91) (1,148,636.41)	(398,349.91) (1,148,636.41)	(398,349.91) (1,148,636.41)	(398,349.91) (1,148,636.41)	(398,349.91) (1,148,636.41)	(398,349.91) (1,148,636.41)	(398,349.91) (1,148,636.41)	(398,349.91) (1,148,636.41)	(398,349.91) (1,148,636.41)	(398,349.91) (1,148,636.41)	(398,349.91) (1,148,636.41)
Reserve for Amort of CIAC: All													
RESERVE FOR AMORT OF CIAC:PAC	474,807.46 474,807.46	476,722.92 476,722.92	478,638.31 478,638.31	480,553.77 480,553.77	482,469.16 482,469.16	484,384.54 484,384.54	486,300.01 486,300.01	488,215.47 488,215.47	490,130.86 490,130.86	492,046.31 492,046.31	493,961.70 493,961.70	495,877.07 495,877.07	497,792.54 497,792.54
Total Deferred Credits	(1,383,520.03)	(1,381,604.57)	(1,379,689.18)	(1,377,773.72)	(1,375,858.33)	(1,373,942.95)	(1,372,027.48)	(1,370,112.02)	(1,368,196.63)	(1,366,281.18)	(1,364,365.79)	(1,362,450.42)	(1,362,402.94)
Total Equity & Liabilties	(4,612,040.05)	(4,559,205.43)	(4,556,390.05)	(4,533,245.37)	(4,527,836.40)	(4,549,397.54)	(4,548,760.95)	(4,502,736.08)	(4,501,542.00)	(4,469,991.51)	(4,432,820.32)	(4,507,069.77)	(4,461,150.43)
	-	-	-	-	-	-		-	-	-	-	-	-

Pittsfield Aqueduct Company Profit & Loss Statement For the Twelve Months Ended December 31, 2018

			10			Provided pursu	ant to NHPUC Ru	ule 1604.01(19)				
	1 Jan-18	2 Feb-18	3 Mar-18	4 Apr-18	5 May-18	6 Jun-18	7 Jul-18	8 Aug-18	9 Sep-18	10 Oct-18	11 Nov-18	12 Dec-18
Water Sales												
WATER SALES: BILLED REVENUE WATER SALES BILLED RECOUPMENT	(46,702.40)	(46,685.91)	(54,592.19)	(44,943.01)	(45,712.57)	(51,712.79)	(47,038.80)	(48,430.50)	(53,772.01)	(45,297.51)	(50,797.29)	(44,775.96)
WATER SALES: UNBILLED REVENUE WATER SALES-UNBILLED RECOUPMNT	(6,833.00)	7,276.00	3,417.00	(4,563.00)	2,111.00	54.00	(7,934.00)	3,665.00	4,242.00	3,398.00	1,439.00	(9,328.00)
FIRE PROTECTION REVENUE	(17,072.56)	(17,072.56)	(17,072.56)	(17,072.56)	(17,072.56)	(17,072.56)	(17,072.56)	(17,072.56)	(17,072.56)	(17,072.56)	(17,072.56)	(17,072.56)
CBFRR REVENUES	(12,213.25)	(12,213.25)	(12,213.25)	(12,213.25)	(12,213.25)	(12,213.25)	(12,213.25)	(12,213.25)	(12,213.25)	(12,213.25)	(12,213.25)	(12,213.25)
CBFRR REVENUES - CONTRA	12,213.25 70,607.96	12,213.25 56,482.47	12,213.25 68,247.75	12,213.25 66,578.57	12,213.25 60,674.13	12,213.25 68,731.35	12,213.25 72,045.36	12,213.25 61,838.06	12,213.25 66,602.57	12,213.25 58,972.07	12,213.25 66,430.85	12,213.25 71,176.52
Other Operating Revenue												
MISC OPERATING REVENUE	(171.00) 171.00	(580.00) 580.00	(226.00) 226.00	(66.00) 66.00	(132.00) 132.00	(344.00) 344.00	(192.00) 192.00	(601.00) 601.00	(161.00) 161.00	(252.00) 252.00	(325.00) 325.00	(121.00) 121.00
Total Revenues	70,778.96	57,062.47	68,473.75	66,644.57	60,806.13	69,075.35	72,237.36	62,439.06	66,763.57	59,224.07	66,755.85	71,297.52
Production Expenses												
OTHER PROD LABOR:TREAT PLANT	0	0	0	0	0	0	0	0	0	0	0	0
OTHER PROD MAT&EXP: SRC/SUPPLY SUPERINTENDENCE: WTP-PAC	0	0	0	0	0	0	0	0	0	0	0	0
BENEFITS: WTP-PAC	-	-	-	-	-	-	-	-	-	-	-	-
POWER PURCHASED: TRT PLT ELEC	595.70	33.36	1.088.36	32.95	483.48	375.95	340.86	359.05	351.97	330.92	406.08	757.88
OPER LABOR: TREATMENT PLANT	6,343.20	6,056.34	6,241.74	5,291.85	4,619.62	4,991.37	4,786.16	8,157.65	5,440.89	5,897.65	4,558.73	5,270.67
OPER EXP T PLANT: MAT & EXP	31.31	60.84	88.04	-	20.65	56.81	10.96	881.36	460.64	97.93	71.96	-
OPER EXP T PLANT: GAS/OIL	1,995.78	-	2,722.61	-	-	-	-	-	1,613.11	1,813.38	1,704.71	-
OPER EXP T PLANT: PHONE	182.20	182.24	182.24	181.65	186.98	186.70	186.58	185.52	187.68	186.71	189.07	300.88
MAINT STRUCT: TREATMENT PLANT	296.69	164.08	74.52	109.61	99.71	235.58	1,530.84	5,164.17	2,727.39	80.51	341.04	153.52
MAINT STRUCT: SOURCE OF SUPPLY	1,419.83	266.31	1,092.96	66.19	387.37	61.83	202.86	309.17	669.22	2,345.21	5,881.29	307.49
MAINT PUMP EQU: HIGH LIFT ELC	-	-	-	-	-	-	49.87	-	-	-	-	-
BOOSTER STATION GENERAL MAINT	-	-	-	-	-	-	-	-	-	-	-	-
CHLORINE: TREATMENT PLANT	644.10	-	419.10	-	419.10	-	519.10	(200.00)	-	469.10	469.10	-
ALUM. SULFATE/FERRIC CHLORIDE POLYMERS	-	-	-	-	869.00	-	-	-	-	840.00	-	-
CORROSION INHIBITOR	-	- 70.71	-	-	-	-	-	-	-	- 69.86	-	-
SODA ASH	- 895.75	70.71	-	-	-	-	-	- 1,539.85	-	09.00	-	-
LABORATORY EXPENSE	-		133.95			598.43		338.59		13.81		468.00
LAB EXPENSE: OUTSIDE TESTING	511.00	248.00	248.00	388.00	156.00	135.00	729.00	819.00	105.00	682.00	120.20	101.00
MAINT PROC EQU: TRT PLANT	28.67	110.71	734.04	-	17.00	-	71.00	858.91	-	95.60	(32.99)	-
MAINT PROC EQUIP: SCADA & OTHR	114.95	164.61	114.95	344.95	1,214.95	-	229.90	114.95	114.95	118.20	118.20	118.20
	13,059.18	7,357.20	13,140.51	6,415.20	8,473.86	6,641.67	8,657.13	18,528.22	11,670.85	13,040.88	13,827.39	7,477.64
Transmission & Distribution Expenses												
SUPERINTENDENCE: OPS-PAC	-	-	-	-	-	-	-	-	-	-	-	-
BENEFITS: OPS-PAC	-	-	-	-	-	-	-	-	-	-	-	-
MISC GEN EXPENSE/OPERATIONS	-	-	-	148.28	-	-	-	-	-	-	-	-
MISC T&D MATERIALS & SUPPLIES	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
METER OPERATING LABOR & EXP MOLE: METER REMOVAL	228.60	203.23	124.39	92.75	123.67	298.94	673.92	-	245.85	248.68	204.58	56.34
OTHER EXPENSE ON CUST PREMISIS	-	-	-	- 771.12	-	-	-	-	-	-	-	-
SMALL TOOLS EXPENSE	- 146.99	-	23.98		-	- 75.95	122.07	- 10.29	-	- 381.12	- 14.97	- 109.98
TRANS/EXP: MISCELLANEOUS	-	-	23.90		-	-	-	10.29		-	14.57	109.90
GASOLINE	-	-	-	-	-	-	-	-	-	-	-	-
MAINT MAINS: REPAIRS	100.41	271.91	114.99	4,154.63	1,387.29	822.29	4,858.15	759.78	283.15	391.05	286.17	180.39
MAINT MAINS: GATE PROGRAM	-	-	1,396.48	-	-	30.00	3,251.49	5,324.30		2,700.00	-	-
MAINT MAINS: FLUSHING LN	-	-	-	-	-	-	-	-	-		-	-
MAINT GATES: INSPECTION: PAC	-	-	-	-	-	2,605.48	-	77.60	-	-	-	-
MAINTENANCE: SERVICES	-	325.54	-	349.09	3,506.34	288.75	4,818.16	5,906.71	1,765.34	2,517.03	1,696.14	179.88
MAINTENANCE: METERS	689.67	-	299.96	61.83	269.48	374.31	123.66	225.41	75.89	163.01	461.43	50.59
MAINTENANCE: HYDRANTS-REPAIRS	-	41.21	-	-	-	2,467.83	-	-	-	-	253.56	-
MAINTENANCE: HYDRANTS-PAINTING	-	-	-	-	-	201.76	215.40	-	-	-	-	-
MAINTENANCE: HYDRANTS-INSPECTN	5,404.75	1,180.82	940.11	-	-	151.78	-	-	185.50	961.24	281.35	-

MONITOR CONTRACTORS MARKING	- 6,570.42	124.39 2,147.10	310.97 3,210.88	154.58 5,732.28	1,412.89 6,699.67	219.24 7,536.33	424.42 14,487.27	337.51 12,641.60	148.96 2,704.69	354.01 7,716.14	465.79 3,663.99	123.67 700.85
Customer Accounts & Collection Expenses												
CUSTOMER ORDS: COLLECTIONS	-	-	62.19	-	-	-	649.23	-	-	-	-	-
CUSTOMER ORDS: COLLECTIONS	-	-	207.79	-	-	-	148.45	-	160.58	-	-	99.91
METER READING	444.75	186.59	124.39	66.19	92.76	116.65	198.56	75.89	165.48	123.67	123.67	61.83
METER READING: TRANSFERS	-	-	-	-	-	-	53.16	-	46.38	-	168.89	75.89
METER READING: EXCEPTIONS	-	-	-	-	-	-	-	-	-	-	-	-
BILLING & ACCOUNTING	-	-	-	-	-	-	-	-	-	-	-	-
BILLING & ACCOUNTING	647.17	550.60	434.27	609.93	558.83	582.92	616.25	591.63	604.37	584.80	564.23	671.92
UNCOLLECTABLE ACCOUNTS	(868.75) 223.17	- 737.19	- 828.64	996.14 1,672.26	- 651.59	253.34 952.91	494.84 2,160.49	502.61 1,170.13	(371.86) 604.95	(108.86) 599.61	709.73 1,566.52	475.29 1,384.84
Administrative and General Expense	223.17	151.15	020.04	1,072.20	051.55	332.91	2,100.49	1,170.15	004.95	555.01	1,500.52	1,304.04
OFFICE SUPPLIES & EXPENSE	116.81	106.99	204.11	111.31	191.48	112.46	193.01	144.73	114.13	252.51	540.91	103.70
OFFICE SUPPLIES & EXP: PHONE	300.28	299.94	300.09	300.06	300.51	299.75	299.67	300.04	300.12	300.12	299.74	299.82
OUTSIDE SERVICES	-	2,532.33	-	-	-			-	-	-		
INSURANCE EXPENSE	815.64	815.66	815.64	815.64	815.65	815.64	815.64	815.65	815.64	815.65	815.65	815.64
REGULATORY COMMISSION EXPENSE	271.33	271.33	271.33	271.34	-	271.33	271.34	388.67	388.67	388.66	(274.68)	273.68
MEETING CONVENTION/MEMBSP FEES	-	-	-	-	-	-	-	-	-	-		-
LICENSING FEES	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00
PUBLIC RELATIONS	-	9.63	-	12.10	-	11.38	22.77	8.63	-	11.39	-	9.21
MEALS	-	-	-	-	-	-	-	-	-	-	-	-
MISCELLANEOUS GENERAL EXPENSE	-	102.00	-	-	-	(0.01)	-	-	-	-	-	-
CHARITABLE CONTRIBUTIONS	-	-	-	-	-	-	-	-	-	-	-	-
MAINT: OFFICE FURNT & EQUIP	-	-	-	-	-	-	-	-	-	-	-	-
MAINT: MISC GENERAL EQUIP	-	-	-	-	-	-	-	-	-	-	-	-
MAINT COMPUTER EQUIP: PAC	235.08 1,764.14	235.08 4,397.96	235.08 1,851.25	235.08 1,770.53	235.08 1,567.72	235.08 1,770.63	235.08 1,862.51	235.08 1,917.80	235.08 1,878.64	235.08 2,028.41	235.08	- 1,527.05
Inter Div Management Fee	1,704.14	4,397.90	1,001.20	1,770.55	1,307.72	1,770.03	1,002.51	1,917.60	1,070.04	2,020.41	1,641.70	1,527.05
MAINT COMPUTER EQUIP: PAC	510.00	369.00	614.00	413.00	347.00	320.00	249.00	488.00	443.00	394.00	675.00	(182.00)
MAINT COMPUTER EQUIP: PAC	15,908.00	14,926.00	15,261.00	14,200.00	16,372.00	14,730.00	17,336.00	15,862.00	13,076.00	15,150.00	15,434.00	10,425.00
MAINT COMPUTER EQUIP: PAC	-	-	-	-	-	-	-	-	-	-	-	-
	16,418.00	15,295.00	15,875.00	14,613.00	16,719.00	15,050.00	17,585.00	16,350.00	13,519.00	15,544.00	16,109.00	10,243.00
Total Operating Expenses	38,034.91	29,934.45	34,906.28	30,203.27	34,111.84	31,951.54	44,752.40	50,607.75	30,378.13	38,929.04	36,808.60	21,333.38
Depreciation Expense												
DEPRECIATION EXPENSE: PAC	8,492.61	8,499.38	8,497.51	8,496.53	8,499.85	8,500.86	8,505.84	8,506.34	8,413.77	8,489.51	8,469.30	8,464.88
	8,492.61	8,499.38	8,497.51	8,496.53	8,499.85	8,500.86	8,505.84	8,506.34	8,413.77	8,489.51	8,469.30	8,464.88
Amortization Expense: CIAC	(4.045.50)	(4.045.50)	(4.045.00)	(4.045.54)	(4.045.50)	(4.045.04)	(4.045.50)	(4.045.50)	(4.045.00)	(4.045.54)	(4.045.00)	(4.045.47)
AMORTIZATION EXPENSE: CIAC	(1,915.58)	(1,915.53)	(1,915.60)	(1,915.51)	(1,915.50)	(1,915.61)	(1,915.58)	(1,915.53)	(1,915.60)	(1,915.51)	(1,915.38)	(1,915.47)
Amortization Expense												
AMORT EXP - DEFERRED CHARGES	257.31	257.33	257.31	257.33	257.31	257.32	257.31	257.32	257.31	257.31	257.31	257.32
AMORT: ACQUISITION PREMIUM	2.740.25	2.800.17	2.800.17	2.800.17	2.800.17	2.800.18	2.800.17	2.800.17	2.800.17	2.800.17	2.800.17	2.800.17
	2,997.56	3,057.50	3,057.48	3,057.50	3,057.48	3,057.50	3,057.48	3,057.49	3,057.48	3,057.48	3,057.48	3,057.49
Taxes Other than Income Tax												
LOCAL PROPERTY TAXES	13,208.16	13,208.16	13,208.17	13,208.16	18,566.17	15,887.18	15,887.16	15,887.16	15,887.18	15,886.83	15,940.51	14,883.67
OTHER TAXES	-	-	-	-	-	-	-	-	-	-	-	28,405.91
	13,208.16	13,208.16	13,208.17	13,208.16	18,566.17	15,887.18	15,887.16	15,887.16	15,887.18	15,886.83	15,940.51	43,289.58
				(110.10)	(110.10)	(110.10)	(110.10)	(110.10)	(110.10)	(110.10)	(110.10)	(110.10)
GAIN FROM FORGIVENESS SRF DEBT	-	-	-	(119.19)	(119.19)	(119.19)	(119.19)	(119.19)	(119.19)	(119.19)	(119.19)	(119.19)
Income Tax												
PROV/FED INC TAX/CURRENT	1,396.73	319.5	1548.2	2094.86	124.78	2113.43	237.86	-2780.41	1989.78	-1130.82	697.31	-3351.22
PROVS FOR NH BUS PRFTS TAX CUR	570.50	130.51	632.37	855.67	50.96	863.25	97.16	(1,135.69)	812.75	(461.90)	284.83	99,548.59
PROV FEDL INCOME TAX DEFERRED	-	-	-	-	-	-	-	-	-	(401:30)	-	3,311.00
PROV NH INCOME TAX DEFERRED	-	-	-	-	-	-	-	-	-	-	-	2,017.00
	1,967.23	450.01	2,180.57	2,950.53	175.74	2,976.68	335.02	(3,916.10)	2,802.53	(1,592.72)	982.14	101,525.37
Total Operating Deducts	62,784.89	53,233.97	59,934.41	55,881.29	62,376.39	60,338.96	70,503.13	72,107.92	58,504.30	62,735.44	63,223.46	175,636.04
Net Operating Income	7,994.07	3,828.50	8,539.34	10,763.28	(1,570.26)	8,736.39	1,734.23	(9,668.86)	8,259.27	(3,511.37)	3,532.39	(104,338.52)

MISC NON-OPERATING INCOME(EXP) MISC NONUTILITY EXPENSES Other Income	- -	- - -	- -	-	- -	-	- -	-	- -	- -	- -	- -
AFDUC-INT(DEBT) COMPONENT-PAC AFUDC - EQUITY COMPONENT - PAC	-	- -	-	-	-	-	- -	-	-	-	-	-
INTERCOMPANY INTEREST INTEREST EXP: BONDS & NOTES AMORTIZATION OF DEBT EXPENSE INTEREST INCOME Total Interest	5,200.42 279.57 - - 5,479.99	5,147.14 279.57 - - 5 ,426.71	5,235.77 279.57 - - 5 ,515.34	5,403.21 279.57 - - 5,682.78	425.49 279.06 55.95 - 760.50	3,245.34 278.55 62.18 - 3,586.07	3,298.83 278.04 62.70 - 3,639.57	3,251.11 277.52 62.35 - 3,590.98	3,234.69 277.01 62.35 - 3,574.05	3,204.00 276.49 62.35 - 3,542.84	3,371.01 275.98 62.35 - 3,709.34	3,353.25 275.46 62.33 - 3,691.04
Net Income Before Dividends	2514.08	-1598.21	3024	5080.5	-2330.76	5150.32	-1905.34	-13259.84	4685.22	-7054.21	-176.95	-108029.56
DIVIDENDS: COMMON STOCK	-	-	-	-	-	-	-	-	-	-	-	-
Net Income (Or Loss) - YTD	2,514.08	915.87	3,939.87	9,020.37	6,689.61	11,839.93	9,934.59	(3,325.25)	1,359.97	(5,694.24)	(5,871.19)	(113,900.75)
Net Income (Or Loss) - MTD	2,514.08	(1,598.21)	3,024.00	5,080.50	(2,330.76)	5,150.32	(1,905.34)	(13,259.84)	4,685.22	(7,054.21)	(176.95)	(108,029.56)

Pittsfield Aqueduct Company Balance Sheet For the Year Ended December 31, 2018

				For the Year El	nded December 31	, 2018				Provided p	ursuant to NHPUC	Rule 1604.01(19)
	1	2	3	4	5	6	7	8	9	10	11	12
Assets	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18
Land												
LAND	44,180.00	44,180.00	44,180.00	44,180.00	44,180.00	44,180.00	44,180.00	44,180.00	44,180.00	44,180.00	44,180.00	44,180.00
EASEMENTS - PITTSFIELD	16,153.19	16,153.19	16,153.19	16,153.19	16,153.19	16,153.19	16,153.19	16,153.19	16,153.19	16,153.19	16,153.19	16,153.19
	60,333.19	60,333.19	60,333.19	60,333.19	60,333.19	60,333.19	60,333.19	60,333.19	60,333.19	60,333.19	60,333.19	60,333.19
Structures												
SOURCE OF SUPPLY STRUCTURES	71,250.05	71,250.05	71,250.05	71,250.05	71,250.05	71,250.05	71,250.05	71,250.05	71,250.05	71,250.05	71,250.05	71,250.05
GENERAL & MISC STRUCTURES	1,080.00	1,080.00	1,080.00 935.239.12	1,080.00	1,080.00	1,080.00	1,080.00 935.239.12	1,080.00 935.239.12	1,080.00	1,080.00	1,080.00	1,080.00
WATER TREATMENT STRUCTURES RESERVOIRS & DAMS	935,239.12 137,331.46											
LAKE, RIVER & OTHER INTAKE-PAC	38,270.60	38,270.60	38,270.60	38,270.60	38,270.60	38,270.60	38,270.60	38,270.60	38,270.60	38,270.60	38,270.60	38,270.60
Bille, River a officient in the Pho	-	-	-	-	-	-	-	-	-	-	-	-
SUPPLY MAINS: PITTSFIELD	309,352.72	309352.72	309352.72	309352.72	309352.72	309352.72	309352.72	309352.72	309352.72	309352.72	309352.72	309352.72
	1,492,523.95	1,492,523.95	1,492,523.95	1,492,523.95	1,492,523.95	1,492,523.95	1,492,523.95	1,492,523.95	1,492,523.95	1,492,523.95	1,492,523.95	1,492,523.95
Equipment												
POWER GENERATED EQUIP: PAC	55,407.06	55,407.06	55,407.06	55,407.06	55,407.06	55,407.06	55,407.06	55,407.06	55,407.06	55,407.06	55,407.06	55,407.06
ELECTRIC PUMPING EQUIPMENT	1,854.50	1,854.50	1,854.50	1,854.50	1,854.50	1,854.50	1,854.50	1,854.50	1,854.50	1,854.50	1,854.50	1,651.09
PUMPING EQUIP: PUMPS - PAC	14,105.04	14,105.04	14,105.04	14,105.04	14,105.04	14,105.04	14,105.04	14,105.04	14,105.04	14,105.04	14,105.04	14,105.04
PURIFICATION SYSTEM EQUIPMENT	4,535.36	4,535.36	4,535.36	4,535.36	4,535.36	4,535.36	4,535.36	4,535.36	4,535.36	4,535.36	4,535.36	
WATER TREATMENT EQUIPMENT: PAC	16,092.59	16,092.59	16,092.59	16,092.59	16,092.59	16,092.59	16,092.59	16,092.59	17,042.89	17,042.89	17,042.89	17,042.89
WTP EQUIPMENT: MEDIA - PAC	41,963.48	41,963.48	41,963.48	41,963.48	41,963.48	41,963.48	41,963.48	41,963.48	41,963.48	41,963.48	41,963.48	41,963.48
	133,958.03	133,958.03	133,958.03	133,958.03	133,958.03	133,958.03	133,958.03	133,958.03	134,908.33	134,908.33	134,908.33	130,169.56
Transmission & Distribution												
PAVEMENTS - GENERAL	5,000.00	5,000.00	5,000.00	5,000.00	5,000.00	5,000.00	5,000.00	5,000.00	5,000.00	5,000.00	5,000.00	5,000.00
PAVEMENTS - TRANS MAINS	2003.77	2003.77	2003.77	2003.77	2003.77	2003.77	2003.77	2003.77	2003.77	2003.77	2003.77	2003.77
PAVEMENTS - DIST MAINS	124,788.30	124,788.30	124,788.30	124,788.30	124,788.30	124,788.30	124,788.30	124,788.30	124,788.30	124,788.30	124,788.30	124,788.30
PAVEMENTS - GATE VALVES	2,833.21	2,833.21	2,833.21	2,833.21	2,833.21	2,833.21	2,833.21	2,833.21	2,833.21	2,833.21	2,833.21	2,833.21
MAINS: 6" & LARGER	641,868.44	641,868.44	641,868.44	641,868.44	641,868.44	641,868.45	641,868.45	641,868.45	641,868.45	641,868.45	641,868.45	641,868.45
DEVEL INSTAL MAINS-6" & LARGER MAINS: 4" & UNDER	316,734.00 216.00											
GATES: 4" & UNDER	9,528.99	9,528.99	9,528.99	9,528.99	9,528.99	9,998.74	9,998.74	9,998.74	9,998.74	9,998.74	9,998.74	9,998.74
GATES: 6" & LARGER	49,379.13	54,829.76	54,829.76	54,829.76	54,829.76	54,829.76	54,829.76	54,829.76	54,829.76	54,829.76	54,829.76	54,829.76
GATES: UNKNOWN SIZE	754.24	754.24	754.24	754.24	754.24	284.49	284.49	284.49	284.49	284.49	284.49	284.49
DEVEL INSTAL MAINS: 4" & UNDER	-	-	-	-	-		-	-	-	-	-	-
MAINS: UNKNOWN SIZE	1,018,899.48	1,018,899.48	1,018,899.48	1,018,899.48	1,018,899.48	1,018,899.48	1,018,899.48	1,018,899.48	1,018,899.48	1,018,899.48	1,018,899.48	1,018,899.48
DEVEL INSTAL MAINS: UNKNOWN SZ	176,678.50	176,678.50	176,678.50	176,678.50	176,678.50	176,678.50	176,678.50	176,678.50	176,678.50	176,678.50	176,678.50	176,678.50
PAVING - SERVICES	3700.02	3700.02	3700.02	3700.02	3700.02	3700.02	3700.02	3700.02	3700.02	3700.02	3700.02	3700.02
NEW SERVICES	110,817.38	110,817.38	110,817.38	110,817.38	112,957.63	112,957.63	112,957.63	112,957.63	112,957.63	112,957.63	112,957.63	112,957.63
RENEWED SERVICES METERING EQUIPMENT	58,563.07 85,247.38	58,563.07	58,563.07 86,039.76	58,563.07	58,563.07	58,563.07 85,828.24	58,563.07	58,563.07 85,632.98	58,563.07 85,707.66	61,683.14 85,024.25	62,052.18	62,052.18 84,925.75
RADIOS FOR METERING	62,639.95	85,247.38 62,732.80	62,728.49	86,039.76 62,728.49	86,039.76 62,728.49	63,032.86	85,828.24 63,032.86	62,937.85	62,936.67	62,936.67	85,024.25 62,936.67	61,709.75
FIRE PROT EQUIP: HYDRANTS	86,234.66	86,234.66	86,234.66	86,234.66	86,234.66	86,234.66	89,988.61	90,328.27	90,328.27	90,328.27	90,328.27	90,328.27
HYDRANTS - PAVING	184.00	184.00	184.00	184.00	184.00	184.00	184.00	184.00	184.00	184.00	184.00	184.00
HYDRANTS: CIAC	14,550.00	14,550.00	14,550.00	14,550.00	14,550.00	14,550.00	14,550.00	14,550.00	14,550.00	14,550.00	14,550.00	14,550.00
OTHER PLANT & MISC EQUIP: PAC	1,495.00	1,495.00	1,495.00	1,495.00	1,495.00	1,495.00	1,495.00	1,495.00	1,495.00	1,495.00	1,495.00	1,495.00
	2,772,115.52	2,777,659.00	2,778,447.07	2,778,447.07	2,780,587.32	2,780,680.18	2,784,434.13	2,784,483.52	2,784,557.02	2,786,993.68	2,787,362.72	2,786,037.30
Miscellaneous Equipment												
SHOP EQUIPMENT	9,687.95	9,687.95	9,687.95	9,687.95	9,687.95	9,687.95	9,687.95	9,687.95	9,687.95	9,687.95	9,687.95	9,687.95
	33,352.88	33,352.88	33,352.88	33,352.88	33,352.88	33,352.88	33,352.88	33,352.88	33,352.88	33,352.88	33,352.88	33,352.88
COMMUNICATION EQUIPMENT - PAC COMPUTER EQUIPMENT	32,450.75 27,788.24	32,450.75 27,788.24	32,450.75 27,788.24	32,450.75 27,788.24	32,450.75 27,788.24	32,450.75 27,352.18	32,450.75 27,352.18	32,450.75 27,352.18	25,202.85 24,555.64	25,202.85 24,555.64	25,202.85 24,555.64	25,202.85 24,555.64
MISCELLANEOUS GENERAL EQUIP	16,974.54	16,974.54	16,974.54	16,974.54	16,974.54	16,974.54	16,974.54	16,974.54	24,555.64	24,555.64	24,555.64	24,555.64
	120,254.36	120,254.36	120,254.36	120,254.36	120,254.36	119,818.30	119,818.30	119,818.30	109,773.86	109,773.86	109,773.86	109,773.86
Intangible Plant	120,204.00	.20,204.00	.20,204.00	.20,204.00	.20,204.00							
ORGANIZATION EXPENSE	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65
	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65
Total Plant in Service	4,654,735.70	4,660,279.18	4,661,067.25	4,661,067.25	4,663,207.50	4,662,864.30	4,666,618.25	4,666,667.64	4,657,647.00	4,660,083.66	4,660,452.70	4,654,388.51
A second data di Disease si stis												
Accumulated Depreciation	(4 007 400 44)	(1 025 050 70)	(1 044 045 74)	(1 050 040 07)	(1 061 343 40)	(1 960 406 00)	(1 977 040 70)	(1 006 040 04)	(1 006 500 40)	(1 004 507 24)	(1 002 000 04)	(1 006 047 40)
ACCUMULATED DEPRECIATION: PAC ACCUM DEPREC: COST OF REM -PAC	(1,827,460.41) 240,093.15	(1,835,959.79) 240,698.78	(1,844,345.74) 240,786.82	(1,852,842.27) 240,786.82	(1,861,342.12) 240,786.82	(1,869,406.92) 240,786.82	(1,877,912.76) 241,203.93	(1,886,248.84) 241,241.67	(1,886,508.49) 241,487.55	(1,894,597.31) 241,834.23	(1,903,066.61) 241,875.23	(1,906,047.48) 241,875.23
ACCUM DEPREC. COST OF REM -PAC ACCUM DEPRECIATION: LOSS -PAC	188,908.31	188,908.31	188,986.76	188,986.76	188.986.76	188,986.76	188,986.76	189,106.77	241,487.55 191,092.09	241,634.23 191,374.81	241,875.23 191,374.81	191,954.99
ACCOMPLETEORITON, ECCO-LAC	1,398,458.95	1,406,352.70	1,414,572.16	1,423,068.69	1,431,568.54	1,439,633.34	1,447,722.07	1,455,900.40	1,453,928.85	1,461,388.27	1,469,816.57	1,472,217.26
	.,,	,,	,,	,	,	,,	,,.	,	,,	·,···.	,,	,
Net Plant in Service	3,256,276.75	3,253,926.48	3,246,495.09	3,237,998.56	3,231,638.96	3,223,230.96	3,218,896.18	3,210,767.24	3,203,718.15	3,198,695.39	3,190,636.13	3,182,171.25
Construction Work in Progress												
CWIP: CONTRACTOR CLEARING -PAC	827.50	827.50	827.50	827.50	827.50	827.50	827.50	827.50	1,860.70	5,673.70	5,673.70	6,707.50

Total Plant	3,257,104.25	3,254,753.98	3,247,322.59	3,238,826.06	3,232,466.46	3,224,058.46	3,219,723.68	3,211,594.74	3,205,578.85	3,204,369.09	3,196,309.83	3,188,878.75
Current Assets Cash												
PETTY CASH: PITTSFIELD/NC CASH: BANK OF AMERICA OPERATNG	-	-	-	-	-	-	-	- -	-	- -	-	- -
A/R: BILLED WATER REVENUE A/R: MISCELLANEOUS	16,726.68 1,701.00	15,798.16 1,701.00	46,180.69 1,701.00	17,365.11	17,131.20 -	23,930.02	10,983.81 -	10,152.35 -	44,747.42 -	14,884.83 -	48,159.12 -	39,644.09 1,939.36
ALLOWANCE FOR DOUBTFUL ACCTS A/R: UNBILLED WATER REVENUE A/R UNBILLED REV: RECOUP/MENT AR: UNBILLED REV RECOUP 2009	(119.39) 83,326.00 -	(119.39) 76,050.00 -	(119.39) 72,633.00 -	77,196.00	75,085.00	(253.34) 75,031.00 -	(494.84) 82,965.00 -	(928.72) 79,300.00 -	(108.86) 75,058.00 -	194.35 71,660.00 -	(515.38) 70,221.00 -	(475.29) 79,549.00 -
Inventor & Supplies INVENTORY: PIPES & FITTINGS INVENTORY: METERS - PAC INVENTORY: PAC	- - 0 0	- - 0 0	- - 0 0	- - 0 0	- - 0	- - 0	- - 0	- - 0 0	- - 0 0	- - 0 0	- - 0 0	- - 0 0
Prepaid Expenses & Other	0	0	U	U	0	0	U	0	0	0	0	0
PREPAID INSURANCE PREPAID PROPERTY TAXES-PAC PREPAID EXPENSES PREPAID PROPERTY TAXES	1,563.24 3,018.47 22,937.67 27,519.38	1,671.71 - 2,487.06 11,468.84 15,627.61	1,765.28 1,955.65 - 3,720.93	1,873.67 1,695.56 3,569.23	1,982.05 2,278.15 4,260.20	2,090.44 - 1,746.74 42,443.50 46,280.68	2,198.83 - 28,295.67 31,709.82	2,307.21 - 1,184.57 14,147.84 17,639.62	2,415.60 809.82 3,225.42	2,623.98 435.08 3,059.06	1,808.33 - 448.68 56,698.66 58,955.67	83.33 150.00 42,523.99 42,757.32
Total Current Assets	129,153.67	109,057.38	124,116.23	98,130.34	96,476.40	144,988.36	125,163.79	106,163.25	122,921.98	89,798.24	176,820.41	163,414.48
Other Assets	.,			,		,	-,	,	,	,	.,	,
Other Deferred Charges ACQUISITION PREMIUM - MARA SARBANES-OXLEY TILTON HILL ROAD MAIN BREAK MAIN BREAK - OCTOBER 2003 SOUTH MAIN LEAK RESEARCH ABATEMENT	1,251,376.72 - - - 8,971.34	1,248,576.55 - - 8 ,971.34	1,245,776.38 - - - 8,971.34	1,242,976.21 - - - 8,971.34	1,240,176.04 - - - 8,971.34	1,237,375.86 - - - 8, 971.34	1,234,575.69 - - - 8,971.34	1,231,775.52 - - - 8,971.34	1,228,975.35 - - - 8 ,971.34	1,226,175.18 - - - 8,971.34	1,223,375.01 - - - 8, 971.34	1,220,574.84 - - 8,971.34
GRANT APPLICATION - 2008 LOUDON RD MAIN BREAK	0-	- 0	- 0	- 0	- 0	- 0	- 0	- 0	- 0	- 0	- 0	- 0
FAIRVIEW ROAD MAIN BREAK <u>RATE CASE EXPENSE: 2007</u> 2010 DEFERRED RATE CASE EXP RATE CASE EXPENSE: 2012 CONCORD HILL ROAD SERVICE REPR	0 0 - - 0	0 0 - - 0	0 0 - - 0	0 0 - - 0	0 0 - - 0	0 0 - - 0	0 0 - - 0	0 0 - - 0	0 0 - - 0	0 0 - - 0	0 0 - - 0	0 0 - - 0
EMINENT DOMAIN WEB SITE UPGRADE 2006 WEB-SITE UPGRADE 2011	3,668.50 0 0	3,668.50 0 0	3,668.50 0 0	3,668.50 0 0	3,668.50 0 0	3,668.50 0 0	3,668.50 0 0	3,668.50 0 0	3,668.50 0 0	3,668.50 0 0	3,668.50 0 0	3,668.50 0 0
BERRY POND BATHYMETRIC SURVEY BERRY POND BATHYMETRIC SURVEY EMINENT DOMAIN ALLOWANCE	11078.01 - (3,668.50) 1,271,426.07	10820.68 - (3,668.50) 1,268,368.57	10563.37 - (3,668.50) 1,265,311.09	10306.04 - (3,668.50) 1,262,253.59	10048.73 - (3,668.50) 1,259,196.11	9791.41 - (3,668.50) 1,256,138.61	9534.1 - (3,668.50) 1,253,081.13	9276.78 - (3,668.50) 1,250,023.64	9019.47 - (3,668.50) 1,246,966.16	8762.16 - (3,668.50) 1,243,908.68	8504.85 - (3,668.50) 1,240,851.20	8247.53 - (3,668.50) 1,237,793.71
ACQUISITION PREMIUM - MARA	-	-	-	-	-	-	-	-	-	-	-	-
UNAMORTIZED DEBT EXPENSE	20,207.67	20,207.67	20,207.67	21,803.67	22,389.72	22,327.54	22,264.84	22,202.49	22,140.14	22,077.79	22,015.44	21,953.11
Total Other Assets	1,291,633.74	1,288,576.24	1,285,518.76	1,284,057.26	1,281,585.83	1,278,466.15	1,275,345.97	1,272,226.13	1,269,106.30	1,265,986.47	1,262,866.64	1,259,746.82
Total Assets	4677891.66	4652387.6	4656957.58	4621013.66	4610528.69	4647512.97	4620233.44	4589984.12	4597607.13	4560153.8	4635996.88	4612040.05
Equity and Liabilities												
Shareholder's Equity												
COMMON STOCK ADDITIONAL PAID IN CAPITAL	-100 (2,064,823.84)	-100 (2,064,823.84)	-100 (1,935,317.84)	-100 (1,935,317.84)	-100 (1,935,317.84)	-100 (1,935,317.84)	-100 (1,935,317.84)	-100 (1,935,317.84)	-100 (1,935,317.84)	-100 (1,935,317.84)	-100 (1,935,317.84)	-100 (1,935,317.84)
RETAINED EARNINGS BEG - PAC	23,553.03	23,553.03	23,553.03	23,553.03	23,553.03	23,553.03	23,553.03	23,553.03	23,553.03	23,553.03	23,553.03	23,553.03
Net Profit or Loss	(2,514.08)	(915.87)	(3,939.87)	(9,020.37)	(6,689.61)	(11,839.93)	(9,934.59)	3,325.25	(1,359.97)	5,694.24	5,871.19	113,900.75
Total Equity	(2,043,884.89)	(2,042,286.68)	(1,915,804.68)	(1,920,885.18)	(1,918,554.42)	(1,923,704.74)	(1,921,799.40)	(1,908,539.56)	(1,913,224.78)	(1,906,170.57)	(1,905,993.62)	(1,797,964.06)
LTD:SRF CATAMOUNT ROAD LTD:FORGIVABLE DEBT - SRF CATAMOUNT ROAD	(169,403.69) 0	(169,204.69) 0	(169,004.69) 0	(125,821.69) -41240.53	(125,618.69) -41121.34	(125,406.69) -41002.15	(125,202.69) -40882.96	(124,997.69) -40763.77	(124,791.69) -40644.58	(124,585.69) -40525.39	(124,378.69) -40406.2	(124,170.69) -40287.01

Long Term Debt	-169403.69	-169204.69	-169004.69	-167062.22	-166740.03	-166408.84	-166085.65	-165761.46	-165436.27	-165111.08	-164784.89	-164457.7
Current Liabilities												
CURRENT PORTION LTD: CATAMOUNT RD	(1,759.00)	(1,958.00)	(2,158.00)	(2,359.00)	(2,369.00)	(2,387.00)	(2,396.00)	(2,406.00)	(2,416.00)	(2,425.00)	(2,434.00)	(2,443.00)
Current Portion of Long Term Debt	(1,759.00)	(1,958.00)	(2,158.00)	(1,430.28) (3,789.28)	(1,430.28) (3,799.28)	(1,430.28) (3,817.28)	(1,430.28) (3,826.28)	(1,430.28) (3,836.28)	(1,430.28) (3,846.28)	(1,430.28) (3,855.28)	(1,430.28) (3,864.28)	(1,430.28) (3,873.28)
ACCOUNTS PAYABLE CLEARING ACCOUNT	(4,821.14)	(2,457.79)	(3,690.78)	(2,650.50)	(3,293.74)	(882.00)	(2,056.10)	(7,824.57)	(589.58)	(10,599.26)	(642.35)	(1,955.60)
LOCAL PROPERTY TAXES PAYABLE ACCRUED TAXES	-1739.33 0	-3478.66 0	-5217.99 0	-13208.15 0	-31774.32 0	0	-1739.33 0	-3478.66 0	- 0	-15886.83 0	-3478 0	0 0 -2257.91
ACCRUED INTEREST PAYABLE	-	-	-	-	-	-	-	-	-	-	-	-
MISC CURRENT ACCRUED LIABILITY ACCRUED LIABILITY - RETAINAGE	(580.50)	(2,659.57)	(1,029.66)	(1,199.37)	-	(353.15)	(1,123.11)	(1,054.38)	(2,675.02)	(1,107.77)	(2,029.45)	(316.97)
	-7140.97	-8596.02	-9938.43	-17058.02	-35068.06	-1235.15	-4918.54	-12357.61	-3264.6	-27593.86	-6149.8	-4530.48
HARDSHIP CASES: CREDITS	48.97	48.97	48.97	-	-	-	-	-	-	-	-	-
INTERCO PAY/REC: PAC/TSC	-	-	-	-	-	-	-	-	-	-	-	-
INTERCO PAY/REC: PAC/PWS AP INTERCO PAY/REC:PEU/PAC	-	-	-	-	-	(100.00)	(1,323.83)	(1,657.42)	(4,057.42)	(4,057.42)	(9,057.42)	-
INTERCO PAY/REC: PAC/PWW	(33,919.26)	(66,197.40)	(98,087.59)	(122,599.30)	(155,201.71)	(184,426.54)	(227,382.64)	(262,456.67)	(287,435.24)	(321,691.08)	(348,213.29)	-
INTERCO LOAN PWW/PAC: RSF INTERCO PAY/REC: PAC/PEU	(12,954.74)	(12,954.74)	(12,954.74)	(12,954.74)	(12,954.74) 58.56	(12,954.74) 58.58	(12,954.74) 57.22	(12,954.74) 54.23	(12,954.74)	(12,954.74) (1,152.64)	(12,954.74)	(12,954.74)
INTERCO ADV-PCP PROM NOTE 5/18	(776,850.00)	(776,850.00)	(776,850.00)	(776,850.00)	56.50	50.50	57.22	54.25	(1,140.73)	(1,152.04)	(1,170.31)	-
INTERCO LOAN PAC - INTERGRATED	-	-	-	-	-	-	-	-	-	-	-	-
NOTE PAYABLE - PCP 2018 1.1M LOAN	-	-	-	-	(1,162,054.14)	(1,160,151.61)	(1,157,988.24)	(1,155,947.15)	(1,153,900.61)	(1,151,848.63)	(1,149,791.16)	(1,147,728.22)
ST NOTE PAYABLE - PCP 2018 1.1M LOAN	-	-	-	-	(23,945.86)	(23,882.00)	(24,073.74)	(24,137.94)	(24,202.32)	(24,266.85)	(24,331.57)	(24,396.45)
INTERCO PAY/REC: PAC/PCP	(334,684.54)	(278,961.03)	(378,696.01)	(308,218.02)	157,412.39	116,875.14	185,912.61	241,545.16	253,874.94	338,651.92	268,502.39	(72,615.09)
Total Current Liabilities	(1,167,259.54)	(1,145,468.22)	(1,278,635.80)	(1,241,469.36)	(1,235,552.84)	(1,269,633.60)	(1,246,498.18)	(1,231,748.42)	(1,236,927.00)	(1,208,768.58)	(1,287,030.18)	(1,266,098.26)
Other Deferred Credits												
DEFERRED INCOME TAXES	(401,226.77)	(401,226.77)	(401,226.77)	(401,226.77)	(401,226.77)	(401,226.77)	(401,226.77)	(401,226.77)	(401,226.77)	(401,226.77)	(401,226.77)	(508,474.08)
ACCUM DEFERRED INC TAX - REG LIAB	(201,217.00) (602,443.77)	(201,217.00) (709,691.08)										
	,	,					,	,			,	,
CONTRIBUTIONS IN AID OF CONST CIAC-WATER FILTRATION GRANT	(750,286.50) (398,349.91)	(750,286.50) (398,349.91)										
CIAC-WATER FILTRATION GRANT	(1,148,636.41)	(1,148,636.41)	(1,148,636.41)	(1,148,636.41)	(1,148,636.41)	(1,148,636.41)	(1,148,636.41)	(1,148,636.41)	(1,148,636.41)	(1,148,636.41)	(1,148,636.41)	(1,148,636.41)
Reserve for Amort of CIAC: All												
RESERVE FOR AMORT OF CIAC:PAC	453,736.64 453,736.64	455,652.17 455,652.17	457,567.77 457,567.77	459,483.28 459,483.28	461,398.78 461,398.78	463,314.39 463,314.39	465,229.97 465,229.97	467,145.50 467,145.50	469,061.10 469,061.10	470,976.61 470,976.61	472,891.99 472,891.99	474,807.46 474,807.46
Table Data and Occulture												
Total Deferred Credits	(1,297,343.54)	(1,295,428.01)	(1,293,512.41)	(1,291,596.90)	(1,289,681.40)	(1,287,765.79)	(1,285,850.21)	(1,283,934.68)	(1,282,019.08)	(1,280,103.57)	(1,278,188.19)	(1,383,520.03)
Total Equity & Liabilties	(4,677,891.66)	(4,652,387.60)	(4,656,957.58)	(4,621,013.66)	(4,610,528.69)	(4,647,512.97)	(4,620,233.44)	(4,589,984.12)	(4,597,607.13)	(4,560,153.80)	(4,635,996.88)	(4,612,040.05)
	-	-	-	-	-	-	-	-	-	-	-	-

Pittsfield Aqueduct Company Profit & Loss Statement For the Twelve Months Ended December 31, 2017

Jamel 1 2 3 -1 May T Aug T 7 Aug T 7 Aug T 9 10 11 12 WHE State WATER SALES DILLED REVENUE WATER SALES DILLED REVENUE WATER SALES DILLED REVENUE WATER SALES DILLED REVENUE WATER SALES DIMIL 10 REVENUE						Prov	vided pursuan	to NHPUC Ru	ie 1604.01(19)				
Water Sales (46.358.20 (47.105.3) (45.302.00 (47.105.3) (45.302.00 (46.357.20 (46.358.20) (47.350) (17.37.260) (1													
WHER SALES BLLED REVENUE (46.356.20) (46.357.60) (53.702.10) (46.357.60) (53.702.10) (63.702.00) (63.702.00) (63.702.00) (63.702.00) (63.702.00) (63.702.00) (63.702.00) (63.702.00) (63.702.00) (63.702.00) (63.702.00) (63.702.00) (63.702.00) (63.702.00) (63.702.00) (73.702.0	Water Sales	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17
MATER SALES, UNBILLED REVENUE (4.256.00) (1.250.00) (1.271.00) 2.344.00 (9.200.00) (1.250.00) (5.151.00) 2.456.00 (6.688.00) (7.272.50) (7.772.70) (7.772.70)	WATER SALES: BILLED REVENUE	(46,358.26)	(44,310.53)	(45,820.98)	(49,780.08)	(44,951.12)	(52,085.28)	(48,027.58)	(49,394.02)	(53,396.74)	(46,585.74)	(46,675.69)	(53,792.14)
WATER SALES UNBILED RECOURANT PICH ROTECTING RECOURANT CARE MOLECTING REC		-	-		-	-	-	-		-	-	-	-
PREP ROTECTION NEVENUE (16.0666.00) (17.072.56		(4,256.00)	(1,825.00)	5,323.00	(1,073.00)	2,344.00	(506.00)	(8,250.00)	5,151.00		(6,508.00)	3,724.00	749.00
GERRA REVENUES (12,213,25)		- (16 696 90)	- (17.001.17)	- (16 801 11)	- (16 801 11)	- (17 708 35)	- (17.072.56)	- (17.072.56)	- (17.072.56)	-	- (17.072.56)	- (17.072.56)	- (17.072.56)
CHERR REVENUES - CONTRA 12,213,25 </td <td></td> <td>· · · /</td> <td>· · · · · ·</td> <td>· · · · ·</td> <td>· · · · · ·</td> <td>· · · · ·</td> <td>· · · · ·</td> <td>· · · /</td> <td>· · · · ·</td> <td>· · · · · ·</td> <td>· · /</td> <td>· · · · ·</td> <td>· · · · ·</td>		· · · /	· · · · · ·	· · · · ·	· · · · · ·	· · · · ·	· · · · ·	· · · /	· · · · ·	· · · · · ·	· · /	· · · · ·	· · · · ·
Other Correction Revenue C													
IMISC OPERATING REVENUE (147.00 (220.00) (95.00) (94.00) (441.00) (413.00) (445.00) (27.00) (282.00) Total Revenues 67.458.16 63.344.70 77.494 64.300 68.00 96.00.00 (441.00) (413.00) (445.00) (27.00) (282.00) Total Revenues 67.458.16 63.344.70 77.494 66.828.19 60.868.47 69.743.84 73.811.14 61.456.85 68.47.30 70.620.30 60.212.5 70.377.70 Production Expenses C		67,311.16	63,136.70	57,389.09	67,744.19	60,405.47	69,663.84	73,350.14	61,315.58	68,034.30	70,166.30	60,024.25	70,115.70
147.00 282.00 95.00 494.00 461.00 141.00 441.00 441.00 217.00 227.00 228.00 Total Revouss 67.48.16 63.344.70 77.49.49 68.28.19 69.78.34 73.811.4 61.46.5.9 68.47.30 70.620.30 60.241.2 70.377.00 OTHER PROD LAGOR TREAP SROUMARED, TREAP TRANT -													
Production Expanses Contract Plant Co	MISC OPERATING REVENUE	· · · ·	· · ·	· · ·	· · ·				```				
OTHER PROD LABOR: TREAT PLANT -	Total Revenues	67,458.16	63,344.70	57,484.09	68,238.19	60,868.47	69,743.84	73,811.14	61,456.58	68,447.30	70,620.30	60,241.25	70,377.70
OTHER PROD LABOR: TREAT PLANT -	Production Expenses												
SUPERINTENDENCE: WTP-PAC - -		-	-	-	-	-	-	-	-	-	-	-	-
Elementry: WTP-PAC Image: March of the second of the seco		-	-	-	-	-	-	-	-	-	-	-	-
POWER PURCHASED INT PUT ELEC 479.08 475.37 491.63 516.08 380.91 318.88 297.66 322.35 277.02 310.32 6835.47 OPER LABOR TREATMENT PLANT 655.5 4.68 75.01 - <td></td> <td>-</td>		-	-	-	-	-	-	-	-	-	-	-	-
OPER LABOR: TREATMENT PLANT 5,241.87 5,243.87 6,265.87 3,86.04 4,039.04 4,865.37 4,271.30 5,005.87 5,450.48 4,957.67 OPER EXP T PLANT: MAR EXP 665.55 4.66 75.01 2235.55 2,011.28 - - - - - 2,430.56 OPER EXP T PLANT: GARJOL 2,979.64 - 2,235.55 2,011.28 - - - - - 2,430.56 MAINT STRUCT: TREATMENT PLANT 199.45 173.76 174.11 174.14 174.15 174.50		-	-	-		-	-	-		-	-	-	-
OPER EXP TPLANT: MAT & EXP 65.55 4.68 7.501 255.81 15.48 265.111.18													
OPER EXP TPLANT: GAS/OIL 2.279.64 2.279.56 2.011.21 1.11.1 <th1.11.1< th=""> 1.11.1 <th1.11.1< t<="" td=""><td></td><td>-, -</td><td>,</td><td>-,</td><td>3,840.40</td><td></td><td>,</td><td></td><td>,</td><td></td><td>5,450.64</td><td>4,727.90</td><td>· ·</td></th1.11.1<></th1.11.1<>		-, -	,	-,	3,840.40		,		,		5,450.64	4,727.90	· ·
OPER RXP TPLANT.PHONE 172.40 173.76 173.76 173.76 173.76 174.14 174.14 174.14 174.14 174.14 174.41 174.43 181.71 181.85 181.82 MAINT STRUCT: SOURCE OF SUPPLY 821.83 2,397.95 263.00 555.0 1,883.71 5,200.17 344.26 2,134.63 747.31 568.88 1,348.14 1605.76 MAINT STRUCT: SOURCE OF SUPPLY 821.83 2,397.95 263.00 555.0 1,883.71 5,200.17 344.26 2,134.63 747.31 568.88 1,348.14 1605.76 BOOSTER STATION GENERAL MAINT -			4.00		2 011 28	200.01	15.40	205.10	(205.10)		-	-	
MAINT STRUCT: TREATMENT PLANT 99.95 . 156.67 104.92 74.92 40.35 74.73 569.88 1.797.87 2,111.79 159.95 MAINT STRUCT: SOURCE OF SUPPLY 82.13 2,337.95 263.00 555.30 1,883.71 5,200.17 344.26 2,134.63 747.31 568.88 1,346.14 160.57 MOND STRUCT: SOURCE OF SUPPLY 619.10 .		,	173 76		,	174 14	174 14	174 11	179 94				
MAINT STRUCT: SOURCE OF SUPPLY 821.83 2,397.95 263.00 555.30 1,882.71 5,200.71 344.80 2,134.63 747.31 556.88 1,346.14 1,605.76 MONDT PUMP EQU: HIGH LIFT ELC -													
MAINT PUMP EQU: HIGH LIFT ELC - - - - - - - - 764.80 BOOSTER STATION GENERAL MAINT 619.10 - 469.10 419.10 669.10 (150.00) 419.10 1,38.10 - 469.10 - 184.55 CHLORINE: TREATMENT PLANT 619.10 - 469.10 419.10 669.10 (150.00) 419.10 1,38.10 - 469.10 - 184.55 POLYMERS - - - - 176.22 104.68 69.79 - <td></td> <td></td> <td>2,397.95</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>,</td> <td>,</td> <td></td>			2,397.95								,	,	
CHLORINE: TREATMENT PLANT 619.10 - 469.10 419.10 419.10 419.10 1,338.10 - 469.10 - 184.55 POLYMERS 33.363 - 213.87 -	MAINT PUMP EQU: HIGH LIFT ELC	-	-	-	-	-	-	-	· -	-	-	-	764.80
ALLM. SULFATE/FERRIC CHLORIDE 819.00 -	BOOSTER STATION GENERAL MAINT	-	-	-	-	307.95	-	-	-	1,200.00	-	-	-
POLYMERS - - - - </td <td></td> <td></td> <td>-</td> <td>469.10</td> <td>419.10</td> <td>669.10</td> <td>(150.00)</td> <td>419.10</td> <td>1,338.10</td> <td>-</td> <td>469.10</td> <td>-</td> <td>184.55</td>			-	469.10	419.10	669.10	(150.00)	419.10	1,338.10	-	469.10	-	184.55
CORROSION INHIBITOR 333.63 - 213.87 - - - 178.22 104.68 69.79 - - - SODA ASH 862.65 - - - 912.65 -		819.00	-	-	-	-	-	-	-	-	-	-	-
SODA ASH 662.65 - - - - 912.65 -		-	-	-	-	-	-	-	-	-	-	-	-
LABORATORY EXPENSE Image:			-	213.87	-	-	-				-	-	-
LAB EXPENSE: OUTSIDE TESTING 10.00 548.00 220.00 476.00 24.00 346.00 619.00 263.00 186.00 381.00 259.00 126.00 MAINT PROC EQUI: TS PLANT - - 299.22 110.67 208.82 - 420.25 60.07) 934.51 1,14.91 - 456.22 MAINT PROC EQUI: TS CADA & OTHR 114.95 229.90 373.28 114.95 248.73 184.99 114.95 243.73 194.93 114.95 672.08 Transmission & Distribution Expenses 500 114.95 14.95 114.95 14.95			-	-	-	-	-		-		-	-	-
MAINT PROC EQU: TRT PLANT - 299.22 110.67 208.82 - 420.25 (60.27) 934.51 1,14.91 - 456.22 MAINT PROC EQUIP: SCADA & OTHR 114.95 229.90 373.28 114.95 949.95 114.95 114.95 243.73 194.93 114.95 672.08 Tramsission & Distribution Expenses Superint Processes 8,714.95 10.462.30 8,705.47 8,409.22 8,78.24 10.46.06 9,053.95 12,465.34 SUPERINTENDENCE: OPS-PAC -			548.00	220.00	476.00	24.00	346.00		263.00		-	259.00	125.00
MAINT PROC EQUIP: SCADA & OTHR 114.95 229.90 373.28 114.95 949.95 114.95 114.95 243.73 194.93 114.95 672.08 Transmission & Distribution Expenses 5 114.95 6,663.63 114.95 8,328.81 8,714.95 10,462.30 8,075.47 8,409.22 8,978.24 10,466.06 9,053.95 12,465.34 Transmission & Distribution Expenses SUPERINTENDENCE: OPS-PAC -		10.00	546.00				540.00					259.00	
12,619.65 6,663.63 11,896.71 8,328.81 8,714.95 10,462.30 8,705.47 8,499.22 8,978.24 10,466.06 9,053.95 12,465.34 Transmision & Distribution Expenses		114 95	229 90				114 95					114 95	
Transmission & Distribution Expenses SUPERINTENDENCE: OPS-PAC -													
BENEFITS: OPS-PAC -	Transmission & Distribution Expenses										-		-
MISC GEN EXPENSE/OPERATIONS - - - - - - - - - 62.57 (6.59) 15.00 MISC T&D MATERIALS & SUPPLIES -		-	-	-	-	-	-	-	-	-	-	-	-
MISC T&D MATERIALS & SUPPLIES I <thi< th=""> <thi< th=""> <thi< td=""><td></td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></thi<></thi<></thi<>		-	-	-	-	-	-	-	-	-	-	-	-
DUTY PAY 1,108.00 1,010.00 1,082.00 1,084.00 (4,284.00) - <th< td=""><td></td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>62.57</td><td>(6.59)</td><td>15.00</td></th<>		-	-	-	-	-	-	-	-	-	62.57	(6.59)	15.00
METER OPERATING LABOR & EXP 803.43 819.71 44.41 60.95 431.59 2,152.22 1,191.97 2,105.66 1,082.33 1,394.16 579.05 118.00 MOLE: METER REMOVAL - <td< td=""><td></td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></td<>		-	-	-	-	-	-	-	-	-	-	-	-
MOLE: METER REMOVAL -							-	-	-	-		-	-
OTHER EXPENSE ON CUST PREMISIS - <		003.43	019.71	44.41	60.95	431.59	2,152.22	1,191.97	2,105.00	1,062.55			116.00
SMALL TOOLS EXPENSE - - - 291.84 - - - 110.70 (20.99) 153.45 TRANS/EXP: MISCELLANEOUS -		-		-		-	-	-	-	_		_	_
TRANS/EXP: MISCELLANEOUS - </td <td></td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>291.84</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>110.70</td> <td>(20.99)</td> <td>153.45</td>		-	-	-	-	291.84	-	-	-	-	110.70	(20.99)	153.45
MAINT MAINS: REPAIRS - 17.18 - 362.98 2,137.90 1,464.18 692.46 224.06 3,676.10 26.07 132.89 9,177.83 MAINT MAINS: GATE PROGRAM - - 2,290.61 - - - - 845.09 - - MAINT MAINS: FLUSHING LN -		-	-	-	-		-	-	-	-	-		-
MAINT MAINS: GATE PROGRAM - - 2,290.61 - - - - - - 845.09 -	GASOLINE	-	-	-	-	-	-	-	-	-	-	-	-
MAINT MAINS: FLUSHING LN - </td <td>MAINT MAINS: REPAIRS</td> <td>-</td> <td>17.18</td> <td>-</td> <td>362.98</td> <td>2,137.90</td> <td>1,464.18</td> <td>692.46</td> <td>224.06</td> <td>3,676.10</td> <td>26.07</td> <td>132.89</td> <td>9,177.83</td>	MAINT MAINS: REPAIRS	-	17.18	-	362.98	2,137.90	1,464.18	692.46	224.06	3,676.10	26.07	132.89	9,177.83
MAINT GATES: INSPECTION: PAC -	MAINT MAINS: GATE PROGRAM	-	-	2,290.61	-	-	-	-	-	-	845.09	-	-
MAINTENANCE: SERVICES 17,064.54 603.95 2,447.12 492.02 158.14 111.81 5,982.20 1,219.48 2,171.50 806.30 2,373.22 187.12		-	-	-	-	-	-	-	-	-	-	-	-
		-	-		-	-	-						-
MAINTENANGE: METERS 116.47 116.52 202.92 88.82 213.32 590.89 354.62 93.56 91.43 243.81 60.95 276.08													
	MAINTENANCE: METERS	116.47	116.52	202.92	88.82	213.32	590.89	354.62	93.56	91.43	243.81	60.95	276.08

MAINTENANCE: HYDRANTS-REPAIRS MAINTENANCE: HYDRANTS-PAINTING MAINTENANCE: HYDRANTS-INSPECTN MONITOR CONTRACTORS MARKING	10.99 120.86 19.224.29	492.08 - - 3,059.44	- 667.24 235.80 6,970.10	- 1,127.60 262.55 3,478.92	91.64 - 182.85 220.35 (556.37)	78.96 994.64 425.38 5,818.08	(78.96) 457.13 517.39 9,116.81	- 35.19 639.98 301.02 4,618.95	 518.09 935.31 8,502.32	31.26 - 2,350.15 381.40 6,251.51	579.03 309.03 4,006.59	2,456.38 121.90 12,505.76
	-, -	.,	.,	-,	()	-,	-,	,	.,	.,	,	,
Customer Accounts & Collection Expenses CUSTOMER ORDS: COLLECTIONS	217.97	(217.97)	194.73	(194.73)	-	177.19	-	307.41	356.30	-	-	(840.90)
CUSTOMER ORDS: COLLECTIONS METER READING	- 171.26	247.45 172.72	268.28 165.81	374.81 221.87	- 434.07	- 156.56	- 234.13	- 186.40	- 160.92	- 335.25	- 152.38	1,036.52 110.90
METER READING: TRANSFERS	-	-	-	-	-	-	-	-	-	-	-	-
METER READING: EXCEPTIONS	-	-	-	-	-	-	-	-	-	-	-	-
BILLING & ACCOUNTING BILLING & ACCOUNTING	483.41	(209.64) 745.85	(273.77) 764.87	- 494.25	- 460.65	- 841.59	(37.78) 490.27	- 614.74	- 626.35	- 538.14	- 506.44	37.78 749.34
UNCOLLECTABLE ACCOUNTS	2,048.96	107.09	525.64	494.25 56.33	(500.02)	79.36	(248.36)	541.74	506.20	2,662.36	500.44 590.41	494.07
	2,921.60	845.50	1,645.56	952.53	394.70	1,254.70	438.26	1,650.29	1,649.77	3,535.75	1,249.23	1,587.71
Administrative and General Expense												
OFFICE SUPPLIES & EXPENSE OFFICE SUPPLIES & EXP: PHONE	9.21 350.76	6.44 308.93	158.74 299.90	6.90 300.02	6.90 299.94	10.46 300.10	5.73 300.04	9.20 299.94	5.52 300.28	364.22 300.43	6.44 300.09	774.23 300.23
OUTSIDE SERVICES	- 350.76	- 306.93	299.90	627.50	299.94 638.75	- 300.10	- 300.04	299.94	- -	- 300.43	- 300.09	- 300.23
INSURANCE EXPENSE	1,157.17	867.12	577.07	587.50	654.59	863.91	867.11	867.12	867.12	861.57	883.73	867.78
REGULATORY COMMISSION EXPENSE	231.34	231.33	231.33	231.34	231.33	231.33	231.33	131.33	181.34	-	542.66	271.34
MEETING CONVENTION/MEMBSP FEES LICENSING FEES	- 25.00	- 25.00	7.99 25.00	- 25.00	- 25.00	- 25.00	- 25.00	- 25.00	- 25.00	- 25.00	- 25.00	- 25.00
PUBLIC RELATIONS	25.00	25.00 9.64	25.00 11.38	25.00	25.00	25.00	25.00	25.00	25.00	25.00	23.26	25.00
MEALS	-	-	-	-	-	-	-	-	-	-	-	-
MISCELLANEOUS GENERAL EXPENSE	-	-	-	102.00	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
MAINT: OFFICE FURNT & EQUIP MAINT: MISC GENERAL EQUIP	-	-	-	-	-	-	-	-	-	-	-	-
MAINT COMPUTER EQUIP: PAC	-	-	-	-	-	-	-	-	-	-	-	235.08
	1,773.48	1,448.46	1,311.41	1,880.26	1,860.14	1,430.80	1,429.21	1,332.59	1,379.26	1,551.22	1,781.18	2,476.25
Inter Div Management Fee	452.00	405.00	404.00	400.00	205.00	100.00	322.00	640.00	c20.00	504.00	C14.00	400.00
MAINT COMPUTER EQUIP: PAC MAINT COMPUTER EQUIP: PAC	453.00 18,539.00	495.00 11,138.00	424.00 15,804.00	492.00 12,653.00	385.00 12,359.00	402.00 12,225.00	322.00 12,670.00	612.00 14,895.00	638.00 13,403.00	581.00 11,538.00	614.00 14,248.00	486.00 16,704.00
MAINT COMPUTER EQUIP: PAC	-	-	-	-	-	-	-	-	-	-	-	-
	18,992.00	11,633.00	16,228.00	13,145.00	12,744.00	12,627.00	12,992.00	15,507.00	14,041.00	12,119.00	14,862.00	17,190.00
Total Operating Expenses	55,531.02	23,650.03	38,051.78	27,785.52	23,157.42	31,592.88	32,681.75	31,518.05	34,550.59	33,923.54	30,952.95	46,225.06
Depreciation Expense												
DEPRECIATION EXPENSE: PAC	7,937.66	8,573.42	8,568.97	8,560.66	8,652.84	8,651.65	8,630.24	8,631.36	8,424.34	8,436.25	8,445.16	9,877.36
	7,937.66	8,573.42	8,568.97	8,560.66	8,652.84	8,651.65	8,630.24	8,631.36	8,424.34	8,436.25	8,445.16	9,877.36
Amortization Expense: CIAC												
AMORTIZATION EXPENSE: CIAC	(2,000.96)	(1,915.51)	(1,915.51)	(1,915.51)	(1,915.50)	(1,915.60)	(1,915.58)	(1,915.52)	(1,915.60)	(1,915.51)	(1,915.50)	(1,915.61)
American Frances												
Amortization Expense AMORT EXP - DEFERRED CHARGES	257.40	257.40	257.31	257.31	257.31	257.32	257.31	257.32	257.31	257.33	257.31	257.33
AMORT: ACQUISITION PREMIUM	2,692.33	2,740.25	2,740.25	2,740.26	2,740.25	2,740.25	2,740.25	2,740.25	2,740.25	2,740.27	2,740.25	2,740.25
	2,949.73	2,997.65	2,997.56	2,997.57	2,997.56	2,997.57	2,997.56	2,997.57	2,997.56	2,997.60	2,997.56	2,997.58
Tayaa Othar than Income Tay												
Taxes Other than Income Tax LOCAL PROPERTY TAXES	21,511.50	19.748.50	19,748.50	19.748.50	17.684.50	18,716.50	18,716.50	18.716.50	18.716.50	18,716.50	7.983.17	11.648.83
	21,511.50	19,748.50	19,748.50	19,748.50	17,684.50	18,716.50	18,716.50	18,716.50	18,716.50	18,716.50	7,983.17	11,648.83
Income Tax												
PROV/FED INC TAX/CURRENT PROVS FOR NH BUS PRFTS TAX CUR	(6,462.24)	2,488.15	(3,847.18)	2,697.99	2,465.98	2,230.31	3,446.24	(284.44)	1,026.25	1,908.32	2,937.93	(8,607.31)
PROVS FOR NH BUS PRFTS TAX CUR PROV FEDL INCOME TAX DEFERRED	(1,697.76)	653.69 -	(1,010.73)	708.82	647.86 -	585.94	905.40	(74.73)	269.61 -	501.35 -	771.86	(2,261.31) 7,872.00
PROV NH INCOME TAX DEFERRED	-	-	-	-	-	-	-	-	-	-	-	9,181.00
	(8,160.00)	3,141.84	(4,857.91)	3,406.81	3,113.84	2,816.25	4,351.64	(359.17)	1,295.86	2,409.67	3,709.79	6,184.38
Total Operating Deducts	77,768.95	56,195.93	62,593.39	60,583.55	53,690.66	62,859.25	65,462.11	59,588.79	64,069.25	64,568.05	52,173.13	75,017.60

Net Operating Income	(10,310.79)	7,148.77	(5,109.30)	7,654.64	7,177.81	6,884.59	8,349.03	1,867.79	4,378.05	6,052.25	8,068.12	(4,639.90)
MISC NON-OPERATING INCOME(EXP) MISC NONUTILITY EXPENSES Other Income	- -	- - -	- -	-	- -	-	- -	- -	-	- - -	-	- -
AFDUC-INT(DEBT) COMPONENT-PAC AFUDC - EQUITY COMPONENT - PAC	-	-	-	-	-	-	-	-	-	-	-	-
INTERCOMPANY INTEREST INTEREST EXP: BONDS & NOTES AMORTIZATION OF DEBT EXPENSE INTEREST INCOME Total Interest	4,877.89 48.00 - - 4,925.89	4,947.08 112.00 - - 5,059.08	4,987.00 112.00 - - 5 ,099.00	5,045.62 112.00 - - 5 ,157.62	5,019.16 112.00 - - 5 ,131.16	5,152.43 143.00 - - 5 ,295.43	5,199.08 (799.57) - - 4,399.51	5,160.20 - - 5 ,160.20	5,126.17 - - 5 ,126.17	5,088.14 - - 5 ,088.14	5,105.30 - - 5 ,105.30	5,247.02 279.57 - - 5,526.59
Net Income Before Dividends	(15,236.68)	2,089.69	(10,208.30)	2,497.02	2,046.65	1,589.16	3,949.52	(3,292.41)	(748.12)	964.11	2,962.82	(10,166.49)
DIVIDENDS: COMMON STOCK	-	-	-	-	-	-	-	-	-	-	-	-
Net Income (Or Loss) - YTD	(15,236.68)	(13,146.99)	(23,355.29)	(20,858.27)	(18,811.62)	(17,222.46)	(13,272.94)	(16,565.35)	(17,313.47)	(16,349.36)	(13,386.54)	(23,553.03)
Net Income (Or Loss) - MTD	(15,236.68)	2,089.69	(10,208.30)	2,497.02	2,046.65	1,589.16	3,949.52	(3,292.41)	(748.12)	964.11	2,962.82	(10,166.49)

Pittsfield Aqueduct Company Balance Sheet For the Year Ended December 31, 2017

	1	9	Provided purs 10	suant to NHPUC	Rule 1604.01(19) 12							
	Jan-17	2 Feb-17	3 Mar-17	4 Apr-17	5 May-17	6 Jun-17	7 Jul-17	8 Aug-17	Sep-17	Oct-17	Nov-17	Dec-17
Assets				r							-	
Land												
LAND EASEMENTS - PITTSFIELD	44,180.00 16.153.19	44,180.00 16.153.19	44,180.00 16.153.19	44,180.00 16.153.19	44,180.00 16,153,19	44,180.00 16.153.19	44,180.00 16.153.19	44,180.00 16.153.19	44,180.00 16.153.19	44,180.00 16.153.19	44,180.00 16,153,19	44,180.00 16.153.19
EASEMENTS - FITTSFIELD	60,333.19	60,333.19	60,333.19	60,333.19	60,333.19	60,333.19	60,333.19	60,333.19	60,333.19	60,333.19	60,333.19	60,333.19
Structures	,	,	,	,	,	,	,	,	,	,	,	,
SOURCE OF SUPPLY STRUCTURES	71,250.05	71,250.05	71,250.05	71,250.05	71,250.05	71,250.05	71,250.05	71,250.05	71,250.05	71,250.05	71,250.05	71,250.05
GENERAL & MISC STRUCTURES	1,080.00	1,080.00	1,080.00	1,080.00	1,080.00	1,080.00	1,080.00	1,080.00	1,080.00	1,080.00	1,080.00	1,080.00
WATER TREATMENT STRUCTURES RESERVOIRS & DAMS	926,599.12 137,331.46	935,239.12 137,331.46										
LAKE, RIVER & OTHER INTAKE-PAC	38,270.60	38,270.60	38,270.60	38,270.60	38,270.60	38,270.60	38,270.60	38,270.60	38,270.60	38,270.60	38,270.60	38,270.60
	-	-	-	-	-	-	-	-	-	-	-	-
SUPPLY MAINS: PITTSFIELD	309,352.72	309,352.72	309,352.72	309,352.72	309,352.72	309,352.72	309,352.72	309,352.72	309,352.72	309,352.72	309,352.72	309,352.72
Environment	1,483,883.95	1,483,883.95	1,483,883.95	1,483,883.95	1,483,883.95	1,483,883.95	1,483,883.95	1,483,883.95	1,483,883.95	1,483,883.95	1,483,883.95	1,492,523.95
Equipment POWER GENERATED EQUIP: PAC	55,407.06	55,407.06	55,407.06	55,407.06	55,407.06	55,407.06	55,407.06	55,407.06	55,407.06	55,407.06	55,407.06	55,407.06
ELECTRIC PUMPING EQUIPMENT	1,854.50	1,854.50	1,854.50	1,854.50	1,854.50	1,854.50	1,854.50	1,854.50	1,854.50	1,854.50	1,854.50	1,854.50
PUMPING EQUIP: PUMPS - PAC	12,505.04	12,505.04	12,505.04	12,505.04	14,105.04	14,105.04	14,105.04	14,105.04	14,105.04	14,105.04	14,105.04	14,105.04
	4 505 00	4 505 00	4 505 00	4 505 00	4 505 00	4 505 00	4 505 00	4 505 00	4 505 00	4 505 00	4 505 00	4 505 00
PURIFICATION SYSTEM EQUIPMENT WATER TREATMENT EQUIPMENT: PAC	4,535.36 6,981.56	4,535.36 6,981.56	4,535.36 6,981.56	4,535.36 6,981.56	4,535.36 16,092.59							
WTP EQUIPMENT: MEDIA - PAC	41,963.48	41,963.48	41,963.48	41,963.48	41,963.48	41,963.48	41,963.48	41,963.48	41,963.48	41,963.48	41,963.48	41,963.48
	123,247.00	123,247.00	123,247.00	123,247.00	133,958.03	133,958.03	133,958.03	133,958.03	133,958.03	133,958.03	133,958.03	133,958.03
Transmission & Distribution												
PAVEMENTS - GENERAL	5,000.00	5,000.00	5,000.00	5,000.00	5,000.00	5,000.00	5,000.00	5,000.00	5,000.00	5,000.00	5,000.00	5,000.00
PAVEMENTS - TRANS MAINS PAVEMENTS - DIST MAINS	2,003.77 92,658.30	2,003.77 92,658.30	2,003.77 92,658.30	2,003.77 92,658.30	2,003.77 124,788.30							
PAVEMENTS - DIST MAINS PAVEMENTS - GATE VALVES	2,833.21	2,833.21	2,833.21	2,833.21	2,833.21	2,833.21	2,833.21	2,833.21	2,833.21	2,833.21	2,833.21	2,833.21
MAINS: 6" & LARGER	628,338.00	628,338.00	628,338.00	628,338.00	641,868.44	641,868.44	641,868.44	641,868.44	641,868.44	641,868.44	641,868.44	641,868.44
DEVEL INSTAL MAINS-6" & LARGER	316,734.00	316,734.00	316,734.00	316,734.00	316,734.00	316,734.00	316,734.00	316,734.00	316,734.00	316,734.00	316,734.00	316,734.00
MAINS: 4" & UNDER	216.00	216.00	216.00	216.00	216.00	216.00	216.00	216.00	216.00	216.00	216.00	216.00
GATES: 4" & UNDER GATES: 6" & LARGER	9,528.99 49,379.13											
GATES: UNKNOWN SIZE	754.24	754.24	754.24	754.24	754.24	754.24	754.24	754.24	754.24	754.24	754.24	754.24
DEVEL INSTAL MAINS: 4" & UNDER	-	-	-	-	-	-	-	-	-	-	-	-
MAINS: UNKNOWN SIZE	1,018,899.48	1,018,899.48	1,018,899.48	1,018,899.48	1,018,899.48	1,018,899.48	1,018,899.48	1,018,899.48	1,018,899.48	1,018,899.48	1,018,899.48	1,018,899.48
DEVEL INSTAL MAINS:UNKNOWN SZ	176,678.50	176,678.50	176,678.50	176,678.50	176,678.50	176,678.50	176,678.50	176,678.50	176,678.50	176,678.50	176,678.50	176,678.50
PAVING - SERVICES NEW SERVICES	3,700.02 110,817.38											
RENEWED SERVICES	58,563.07	58,563.07	58.563.07	58.563.07	58.563.07	58,563.07	58,563.07	58,563.07	58.563.07	58,563.07	58.563.07	58,563.07
METERING EQUIPMENT	87,959.07	87,959.07	87,151.65	87,151.65	87,151.65	86,761.13	87,273.45	87,524.62	85,408.30	85,408.30	85,408.30	85,247.38
RADIOS FOR METERING	62,488.49	62,488.49	62,488.49	62,616.27	62,708.09	62,708.09	62,708.09	62,708.09	62,642.48	62,734.95	62,734.95	62,639.95
FIRE PROT EQUIP: HYDRANTS	86,234.66	86,234.66	86,234.66	86,234.66	86,234.66	86,234.66	86,234.66	86,234.66	86,234.66	86,234.66	86,234.66	86,234.66
HYDRANTS - PAVING HYDRANTS: CIAC	184.00 14.550.00	184.00 14,550.00	184.00 14.550.00	184.00 14.550.00	184.00 14,550.00	184.00 14,550.00	184.00 14.550.00	184.00 14,550.00	184.00 14.550.00	184.00 14.550.00	184.00 14.550.00	184.00 14,550.00
OTHER PLANT & MISC EQUIP: PAC	1,495.00	1,495.00	1,495.00	1,495.00	1,495.00	1,495.00	1,495.00	1,495.00	1,495.00	1,495.00	1,495.00	1,495.00
	2,729,015.31	2,729,015.31	2,728,207.89	2,728,335.67	2,774,087.93	2,773,697.41	2,774,209.73	2,774,460.90	2,772,278.97	2,772,371.44	2,772,371.44	2,772,115.52
Miscellaneous Equipment												
SHOP EQUIPMENT LABORATORY EQUIPMENT	9,687.95 33.352.88	9,687.95	9,687.95 33.352.88	9,687.95	9,687.95 33.352.88	9,687.95 33.352.88	9,687.95 33.352.88	9,687.95	9,687.95 33.352.88	9,687.95	9,687.95 33.352.88	9,687.95 33,352.88
COMMUNICATION EQUIPMENT - PAC	33,352.88	33,352.88 32,450.75	33,352.88	33,352.88 32,450.75	33,352.88							
COMPUTER EQUIPMENT	27,788.24	27,788.24	27,788.24	27,788.24	27,788.24	27,788.24	27,788.24	27,788.24	27,788.24	27,788.24	27,788.24	27,788.24
MISCELLANEOUS GENERAL EQUIP	16,974.54	16,974.54	16,974.54	16,974.54	16,974.54	16,974.54	16,974.54	16,974.54	16,974.54	16,974.54	16,974.54	16,974.54
	120,254.36	120,254.36	120,254.36	120,254.36	120,254.36	120,254.36	120,254.36	120,254.36	120,254.36	120,254.36	120,254.36	120,254.36
Intangible Plant ORGANIZATION EXPENSE	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65
ORGANIZATION EXPENSE	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65	75,550.65
	. 0,000100	10,000.00	,	,	,	. 0,000100	10,000.00	10,000,000	10,000,000	,	. 0,000100	
Total Plant in Service	4,592,284.46	4,592,284.46	4,591,477.04	4,591,604.82	4,648,068.11	4,647,677.59	4,648,189.91	4,648,441.08	4,646,259.15	4,646,351.62	4,646,351.62	4,654,735.70
Accumulated Depresistion												
Accumulated Depreciation ACCUMULATED DEPRECIATION: PAC	(1,725,555.14)	(1,734,128.56)	(1,742,212.01)	(1,750,772.67)	(1,759,425.51)	(1,767,852.81)	(1,776,483.05)	(1,785,114.41)	(1,792,342.37)	(1,800,778.62)	(1,809,223.78)	(1,818,967.80)
ACCUM DEPREC: COST OF REM -PAC	232,962.60	232,962.60	232,962.60	232,962.60	239,048.32	239,048.32	239,105.24	239,133.15	239,133.15	239,133.15	239,133.15	240,093.15
ACCUM DEPRECIATION: LOSS -PAC	187,312.11	187,312.11	187,634.01	187,634.01	187,634.01	187,800.18	187,800.18	187,800.18	188,785.73	188,785.73	188,785.73	188,908.31
	1,305,280.43	1,313,853.85	1,321,615.40	1,330,176.06	1,332,743.18	1,341,004.31	1,349,577.63	1,358,181.08	1,364,423.49	1,372,859.74	1,381,304.90	1,389,966.34
Not Blant in Somioo	2 207 004 02	2 270 420 64	2 260 864 64	2 264 420 70	2 245 224 02	2 206 672 20	2 200 642 20	2 200 200 00	2 204 925 60	2 272 404 00	2 265 046 70	2 264 760 26
Net Plant in Service	3,287,004.03	3,278,430.61	3,269,861.64	3,261,428.76	3,315,324.93	3,306,673.28	3,298,612.28	3,290,260.00	3,281,835.66	3,273,491.88	3,265,046.72	3,264,769.36
Construction Work in Progress												
CWIP: CONTRACTOR CLEARING -PAC	14,860.82	14,860.82	18,574.02	17,142.22	827.50	827.50	827.50	827.50	827.50	827.50	10,427.50	827.50

Total Plant	3,301,864.85	3,293,291.43	3,288,435.66	3,278,570.98	3,316,152.43	3,307,500.78	3,299,439.78	3,291,087.50	3,282,663.16	3,274,319.38	3,275,474.22	3,265,596.86
Current Assets												
Cash												
PETTY CASH: PITTSFIELD/NC CASH: BANK OF AMERICA OPERATNG	-	-	-	-	-	-	-	-	-	-	-	-
A/R: BILLED WATER REVENUE	21,468.37	18,252.54	15,556.48	23,811.04	19,190.43	42,151.56	22,213.52	20,536.38	28,465.50	17,318.27	28,575.31	45,614.94
A/R: MISCELLANEOUS	-	-	· -	-	-	-	· -	-	-	· -	· -	1,701.00
ALLOWANCE FOR DOUBTFUL ACCTS	107.09		(525.64)	(56.33)		(235.51)	-	(554.18)	(506.37)	(936.62)	(913.57)	(1,107.53)
A/R: UNBILLED WATER REVENUE A/R UNBILLED REV: RECOUPMENT	78,057.00	79,882.00	74,559.00	75,632.00	73,288.00	73,794.00	82,044.00	76,893.00	74,458.00	80,966.00	77,242.00	76,493.00
AR: UNBILLED REV RECOUP 2009	-	-	-	-	-	-	-	-	-	-	-	-
Inventory & Supplies												
INVENTORY: PIPES & FITTINGS INVENTORY: METERS - PAC	-	-	-	-	-	-	-	-	-	-	-	-
INVENTORY: PAC	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
Prepaid Expenses & Other												
PREPAID INSURANCE PREPAID PROPERTY TAXES-PAC	104.05	-	1,854.35	987.23	2,100.93	2,228.59	2,353.05	2,477.50	2,701.95	1,834.86	951.13	83.35
PREPAID EXPENSES	1,962.66	1,581.33	1,200.00	1,050.00	1,131.33	1,050.00	900.00	931.34	600.00	450.00	571.34	2,735.88
PREPAID PROPERTY TAXES	35,735.00 37,801.71	17,867.50 19,448.83	3,054.35	2,037.23	3,232.26	50,506.50 53,785.09	33,671.00 36,924.05	16,835.50 20,244.34	3,301.95	2,284.86	45,875.33 47,397.80	34,406.50 37,225.73
Total Current Assets	137,434.17	117,583.37	92,644.19	101,423.94	95,710.69	169,495.14	141,181.57	117,119.54	105,719.08	99,632.51	152,301.54	159,927.14
Other Assets												
Other Deferred Charges ACQUISITION PREMIUM - MARA	1,284,259.75	1,281,519.50	1.278.779.25	1,276,038.99	1,273,298.74	1,270,558.49	1,267,818.24	1,265,077.99	1,262,337.74	1.259.597.47	1,256,857.22	1,254,116.97
SARBANES-OXLEY	-	-	-	-	-	-	-	-	-	-	-	-
TILTON HILL ROAD MAIN BREAK MAIN BREAK - OCTOBER 2003	-	-	-	-	-	-	-	-	-	-	-	-
SOUTH MAIN LEAK RESEARCH	-	-	-	-	-	-	-	-	-	-	-	-
ABATEMENT	4,081.94	4,138.94	4,167.44	4,224.44	4,623.44	5,763.44	8,401.34	8,857.34	8,971.34	8,971.34	8,971.34	8,971.34
GRANT APPLICATION - 2008 LOUDON RD MAIN BREAK	-	-	-	-	-	-	-	-	-	-	-	-
FAIRVIEW ROAD MAIN BREAK	-	-	-	-	-	-	-	-	-	-	-	-
RATE CASE EXPENSE: 2007 2010 DEFERRED RATE CASE EXP	-	-	-	-	-	-	-	-	-	-	-	-
RATE CASE EXPENSE: 2012	-	-	-	-	-	-	-	-	-	-	-	-
CONCORD HILL ROAD SERVICE REPR	-	-	-	-	-	-	-	-	-	-	-	-
EMINENT DOMAIN WEB SITE UPGRADE 2006	3,668.50	3,668.50	3,668.50	3,668.50	3,668.50	3,668.50	3,668.50	3,668.50	3,668.50	3,668.50	3,668.50	3,668.50
WEB-SITE UPGRADE 2011	-	-	-	-	-	-	-	-	-	-	-	-
BERRY POND BATHYMETRIC SURVEY BERRY POND BATHYMETRIC SURVEY	14,165.88	13,908.48	13,651.17	13,393.86	13,136.55	12,879.23	12,621.92	12,364.60	12,107.29	11,849.96	11,592.65	11,335.32
EMINENT DOMAIN ALLOWANCE	(3,668.50) 1,302,507.57	(3,668.50) 1,299,566.92	(3,668.50) 1,296,597.86	(3,668.50) 1,293,657.29	(3,668.50) 1,291,058.73	(3,668.50) 1,289,201.16	(3,668.50) 1,288,841.50	(3,668.50) 1,286,299.93	(3,668.50) 1,283,416.37	(3,668.50) 1,280,418.77	(3,668.50) 1,277,421.21	(3,668.50) 1,274,423.63
ACQUISITION PREMIUM - MARA	-	-	-	-	-	-	-	-	-	-	-	-
UNAMORTIZED DEBT EXPENSE	20,207.67	20,207.67	20,207.67	20,207.67	20,207.67	20,207.67	20,207.67	20,207.67	20,207.67	20,207.67	20,207.67	20,207.67
Total Other Assets	1,322,715.24	1,319,774.59	1,316,805.53	1,313,864.96	1,311,266.40	1,309,408.83	1,309,049.17	1,306,507.60	1,303,624.04	1,300,626.44	1,297,628.88	1,294,631.30
Total Assets	4,762,014.26	4,730,649.39	4,697,885.38	4,693,859.88	4,723,129.52	4,786,404.75	4,749,670.52	4,714,714.64	4,692,006.28	4,674,578.33	4,725,404.64	4,720,155.30
Equity and Liabilities												
Shareholder's Equity												
COMMON STOCK	(100.00)	(100.00)	(100.00)	(100.00)	(100.00)	(100.00)	(100.00)	(100.00)	(100.00)	(100.00)	(100.00)	(100.00)
ADDITIONAL PAID IN CAPITAL	(100.00) (2,185,203.59)	(100.00) (2,064,823.84)	(100.00) (2,064,823.84)	(100.00) (2,064,823.84)								
RETAINED EARNINGS BEG - PAC	(3,028.35)	-	-	-	-	-	-	-	-	-	-	-
Net Profit or Loss	15,236.68	13,146.99	23,355.29	20,858.27	18,811.62	17,222.46	13,272.94	16,565.35	17,313.47	16,349.36	13,386.54	23,553.03
Total Equity	(2,173,095.26)	(2,051,776.85)	(2,041,568.55)	(2,044,065.57)	(2,046,112.22)	(2,047,701.38)	(2,051,650.90)	(2,048,358.49)	(2,047,610.37)	(2,048,574.48)	(2,051,537.30)	(2,041,370.81)

LTD:SRF CATAMOUNT ROAD Long Term Debt	(134,462.69) (134,462.69)	(134,462.69) (134,462.69)	(134,462.69) (134,462.69)	(134,462.69) (134,462.69)	(134,462.69) (134,462.69)	(171,162.69) (171,162.69)	(171,162.69) (171,162.69)	(171,162.69) (171,162.69)	(171,162.69) (171,162.69)	(171,162.69) (171,162.69)	(169,800.69) (169,800.69)	(169,800.69) (169,800.69)
Current Liabilties												
CURRENT PORTION LTD: CATAMOUNT RD Current Portion of Long Term Debt	:	-	-	-	-	-	-	-	-	-	(1,362.00) (1,362.00)	(1,362.00) (1,362.00)
ACCOUNTS PAYABLE CLEARING ACCOUNT LOCAL PROPERTY TAXES PAYABLE ACCRUED INTEREST PAYABLE MISC CURRENT ACCRUED LIABILITY ACCRUED LIABILITY - RETAINAGE	(5,917.07) (1,881.00) (2,578.00) (10,336.04) (20,712.11)	(973.25) - (3,762.00) (2,690.00) (523.81) (10,336.04) (18,285.10)	(4,460.90) (5,643.00) (2,802.00) (10,336.04) (23,241.94)	(3,083.16) - (19,748.50) (2,914.00) (569.94) (10,336.04) (36,651.64)	(35,707.62) - (37,433.00) (3,026.00) (291.84) (14,006.04) (90,464.50)	(15,157.13) - (3,169.00) (447.31) (2,801.21) (21,574.65)	(5,230.11) - (1,881.00) (2,369.43) (760.64) (2,801.21) (13,042.39)	(2,198.18) (3,762.00) (2,369.43) - (2,801.21) (11,130.82)	(2,297.33) - (2,369.43) (833.59) (2,801.21) (8,301.56)	(3,695.79) - (18,716.50) (279.57) (192.09) (2,801.21) (25,685.16)	(4,467.09) (3,762.00) (5,722.68) (2,801.21) (16,752.98)	(7,622.39) - - (317.54) - - - (7,939.93)
HARDSHIP CASES: CREDITS	-	-	-	-	48.97	48.97	48.97	48.97	48.97	48.97	48.97	48.97
INTERCO PAY/REC: PAC/TSC INTERCO PAY/REC: PAC/PWS AP INTERCO PAY/REC: PAC/PWS INTERCO PAY/REC: PAC/PWW INTERCO LOAN PWW/PAC: RSF INTERCO DAY/REC: PAC/PEU INTERCO ADV-PCP PROM NOTE 5/18 INTERCO LOAN PAC - INTERGRATED	(45,882.82) (12,954.74) (776,850.00)	(66,349.63) (12,954.74) (776,850.00)	(98,036.03) (12,954.74) (776,850.00)	- (627.50) (119,658.00) (12,954.74) (0.39) (776,850.00) -	- (627.50) (149,318.00) (12,954.74) (1.17) (776,850.00) -	(627.50) (175,911.85) (12,954.74) (2.09) (776,850.00)	- (627.50) (206,030.67) (12,954.74) (3.01) (776,850.00) -	(2,527.50) (232,855.53) (12,954.74) (5.31) (776,850.00)	(3,727.50) (261,285.32) (12,954.74) (9.88) (776,850.00)	(3,727.50) (287,039.37) (12,954.74) (15.33) (776,850.00)	- (6,527.50) (311,838.93) (12,954.74) (22.83) (776,850.00) -	(12,954.74) (776,850.00)
INTERCO PAY/REC: PAC/PCP	(294,620.39)	(368,449.64)	(311,166.20)	(270,899.63)	(216,613.45)	(285,810.20)	(225,454.55)	(168,891.01)	(122,041.27)	(62,421.62)	(93,525.73)	(410,666.98)
Total Current Liabilities	(1,151,020.06)	(1,242,889.11)	(1,222,248.91)	(1,217,641.90)	(1,246,780.39)	(1,273,682.06)	(1,234,913.89)	(1,205,165.94)	(1,185,121.30)	(1,168,644.75)	(1,219,785.74)	(1,209,724.68)
Other Deferred Credits												
DEFERRED INCOME TAXES ACCUM DEFERRED INC TAX - REG LIAB	(585,549.95) - (585,549.95)	(585,549.95) - (585,549.95)	(585,549.95) - (585,549.95)	(585,549.95) - (585,549.95)	(585,549.95) - (585,549.95)	(585,549.95) - (585,549.95)	(585,549.95) - (585,549.95)	(585,549.95) - (585,549.95)	(585,549.95) - (585,549.95)	(585,549.95) - (585,549.95)	(585,549.95) - (585,549.95)	(401,226.77) (201,217.00) (602,443.77)
CONTRIBUTIONS IN AID OF CONST CIAC-WATER FILTRATION GRANT	(750,286.50) (398,349.91) (1,148,636.41)	(750,286.50) (398,349.91) (1,148,636.41)	(750,286.50) (398,349.91) (1,148,636.41)	(750,286.50) (398,349.91) (1,148,636.41)	(750,286.50) (398,349.91) (1,148,636.41)	(750,286.50) (398,349.91) (1,148,636.41)	(750,286.50) (398,349.91) (1,148,636.41)	(750,286.50) (398,349.91) (1,148,636.41)	(750,286.50) (398,349.91) (1,148,636.41)	(750,286.50) (398,349.91) (1,148,636.41)	(750,286.50) (398,349.91) (1,148,636.41)	(750,286.50) (398,349.91) (1,148,636.41)
Reserve for Amort of CIAC: All RESERVE FOR AMORT OF CIAC:PAC	430,750.11 430,750.11	432,665.62 432,665.62	434,581.13 434,581.13	436,496.64 436,496.64	438,412.14 438,412.14	440,327.74 440,327.74	442,243.32 442,243.32	444,158.84 444,158.84	446,074.44 446,074.44	447,989.95 447,989.95	449,905.45 449,905.45	451,821.06 451,821.06
Total Deferred Credits	(1,303,436.25)	(1,301,520.74)	(1,299,605.23)	(1,297,689.72)	(1,295,774.22)	(1,293,858.62)	(1,291,943.04)	(1,290,027.52)	(1,288,111.92)	(1,286,196.41)	(1,284,280.91)	(1,299,259.12)
Total Equity & Liabilties	(4,762,014.26)	(4,730,649.39)	(4,697,885.38)	(4,693,859.88)	(4,723,129.52)	(4,786,404.75)	(4,749,670.52)	(4,714,714.64)	(4,692,006.28)	(4,674,578.33)	(4,725,404.64)	(4,720,155.30)
	-	-	-	-	-	-	-	-	-	-	-	-

1604.01(a)(20) Quarterly Income Statements for Previous Two Years

PITTSFIELD AQUEDUCT Profit and Loss Statement January - December 2018

Provided pursuant to NHPUC Rule 1604.01(20)

	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Total 2018
WATER SALES	158,698.43	159,344.30	163,846.24	159,939.69	641,828.66
CBFRR REVENUES	36,639.75	36,639.75	36,639.75	36,639.75	146,559.00
MISC OPERATING REVENUE	977.00	542.00	954.00	698.00	3,171.00
TOTAL REVENUES	196,315.18	196,526.05	201,439.99	197,277.44	791,558.66
PRODUCTION EXPENSES	33,556.89	21,530.73	38,856.20	- 34,345.91	128,289.73
TRANSMISSION AND DISTRIB EXP	11,928.40	19,968.28	29,833.56	12,080.98	73,811.22
CUSTOMER ACCT & COLLECTION EXP	1,789.00	3,276.76	3,935.57	3,550.97	12,552.30
ADMINISTRATIVE & GENERAL EXP	8,013.35	5,108.88	5,658.95	5,197.16	23,978.34
INTERCO MGMT FEE: PWW	46,095.00	45,302.00	46,274.00	41,009.00	178,680.00
INTERCO MOMITFEE. FWW	40,095.00	43,302.00	40,274.00	41,009.00	178,080.00
INTERCOMPANY MGMT FEE: PCP	1,493.00	1,080.00	1,180.00	887.00	4,640.00
TOTAL OPERATING EXPENSES	102,875.64	96,266.65	125,738.28	97,071.02	421,951.59
	-	-	-	-	
DEPRECIATION EXPENSE: PAC	25,489.50	25,497.24	25,425.95	25,423.69	101,836.38
AMORTIZATION EXPENSE: CIAC	(5,746.71)	(5,746.62)	(5,746.71)	(5,746.36)	(22,986.40)
AMORT: ACQUISITION PREMIUM	8,340.59	8,400.52	8,400.51	8,400.51	33,542.13
AMORT EXP - DEFERRED CHARGES	771.95	771.96	771.94	771.94	3,087.79
GAIN FROM FORGIVENESS SRF DEBT	-	(357.57)	(357.57)	(357.57)	(1,072.71)
NH BET TAX	-	-	-	28,405.91	28,405.91
LOCAL PROPERTY TAXES	39,624.49	47,661.51	47,661.50	46,711.01	181,658.51
INCOME TAXES	4,597.81	6,102.95	(778.55)	100,914.79	110,837.00
TOTAL OPERATING DEDUCTIONS	175,953.27	178,596.64	201,115.35	301,594.94	857,260.20
	-	-	-	-	
NET OPERATING INCOME	20,361.91	17,929.41	324.64	(104,317.50)	(65,701.54)
	-	-	-	-	
	-	-	-	-	
INTEREST EXPENSE	(838.71)	(837.18)	(832.57)	(827.93)	(3,336.39)
AMORTIZATION OF DEBT EXPENSE	-	(118.13)	(187.40)	(187.03)	(492.56)
	-	-	-	-	
INTERCOMPANY INTEREST	(15,583.33)	(9,074.04)	(9,784.63)	(9,928.26)	(44,370.26)
TOTAL INTEREST EXPENSE, NET	(16,422.04)	(10,029.35)	(10,804.60)	(10,943.22)	(44,862.82)
NET INCOME (OR LOSS)	3,939.87	- 7,900.06	- (10,479.96)	(115,260.72)	(113,900.75)

PITTSFIELD AQUEDUCT Profit and Loss Statement January - December 2019

Provided pursuant to NHPUC Rule 1604.01(20)

	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Total 2019
WATER SALES	148,643.32	155,058.93	166,495.39	155,117.53	625,315.17
CBFRR REVENUES	36,639.75	36,639.75	36,639.75	36,639.75	256,478.25
MISC OPERATING REVENUE	343.00	760.00	791.00	769.00	4,557.00
TOTAL REVENUES	185,626.07	192,458.68	203,926.14	192,526.28	886,350.42
	-	-	-	-	
PRODUCTION EXPENSES	35,104.67	29,831.23	27,920.51	38,459.71	224,172.53
TRANSMISSION AND DISTRIB EXP	10,556.48	17,903.41	12,756.64	19,962.69	102,395.75
CUSTOMER ACCT & COLLECTION EXP	2,589.73	3,067.28	5,047.74	4,889.49	26,298.99
ADMINISTRATIVE & GENERAL EXP	4,685.92	4,489.69	13,200.59	4,412.88	49,165.28
INTERCO MGMT FEE: PWW	45,648.00	40,485.00	38,800.00	45,086.00	294,952.00
INTERCOMPANY MGMT FEE: PCP	1,298.00	1,174.00	950.00	1,096.00	7,940.00
TOTAL OPERATING EXPENSES	99,882.80	96,950.61	98,675.48	113,906.77	704,924.55
	-	-	-	-	
DEPRECIATION EXPENSE: PAC	25,410.34	25,415.66	25,457.76	25,288.40	177,855.92
AMORTIZATION EXPENSE: CIAC	(5,746.31)	(5,746.24)	(5,746.30)	(5,746.23)	(40,223.93)
AMORT: ACQUISITION PREMIUM	8,536.33	8,604.23	8,604.24	8,604.23	60,093.83
AMORT EXP - DEFERRED CHARGES	771.92	770.62	771.91	771.93	5,400.83
GAIN FROM FORGIVENESS SRF DEBT	(357.57)	(357.57)	(357.57)	(357.57)	(2,502.99)
NH BET TAX	-	-	-	1,258.00	1,258.00
LOCAL PROPERTY TAXES	47,484.24	47,448.27	47,412.25	45,347.23	330,036.75
INCOME TAXES	2,009.39	4,712.75	7,353.98	(547.12)	27,605.12
TOTAL OPERATING DEDUCTIONS	177,991.14	177,798.33	182,171.75	188,525.64	1,264,448.08
	-	-	-	-	
NET OPERATING INCOME	7,634.93	14,660.35	21,754.39	4,000.64	(378,097.66)
	-	-	-	-	
INTEREST EXPENSE	(922.26)	(010 56)	(813.81)	(809.04)	(5,720,20)
AMORTIZATION OF DEBT EXPENSE	(823.26)	(818.56)			(5,720.30)
AMORTIZATION OF DEBT EXPENSE	(186.99)	(186.99)	(186.99)	(186.99)	(1,308.93)
	-	-	-	-	
INTERCOMPANY INTEREST	(9,794.05)	(9,527.63)	(9,558.29)	(9,093.03)	(66,852.97)
TOTAL INTEREST EXPENSE, NET	(10,804.30)	(10,533.18)	(10,559.09)	(10,089.06)	(68,161.90)
	-	-	-	-	
NET INCOME (OR LOSS)	(3,169.37)	4,127.17	11,195.30	(6,088.42)	(451,979.86)

1604.01(a)(21) Quarterly Sales Volumes for the previous 2 years, itemized for residential and other classifications of service, if not previously filed with the Commission.

Docket No. 20-153 Exhibit 1

Pittsfield Aqueduct Company, Inc. Quarterly Sales Volume Schedule for the Five Years from 2017 through 2018

Provided pursuant to NHPUC Rule 1604.01(21)

			Marob				2017	Sontombor			December		
Customer Type	I	March \$	March Cons.	June \$	June Cons.	Se	eptember \$	September Cons.	De	cember \$	December Cons.	Total \$	Total Cons.
Residential	\$	103,715	9,519	\$ 110,513	10,579	\$	116,589	11,479	\$	107,924	10,144	\$ 438,740	41,721
Commercial	\$	29,041	2,564	\$ 31,084	2,822	\$	30,607	2,743	\$	30,723	2,771	\$ 121,455	10,900
Industrial	\$	6,284	544	\$ 7,518	730	\$	7,190	683	\$	10,730	1,238	\$ 31,723	3,195
Municipal	\$	48,039	310	\$ 49,465	374	\$	47,650	169	\$	48,894	349	\$ 194,048	1,202
	\$	187,079	12,937	\$ 198,579	14,505	\$	202,036	15,074	\$	198,271	14,502	\$ 2,692	Unbilled Revenue
												\$ -	Abatements
												\$ -	Other Adjustments
												\$ -	Recoupment
												\$ 788,657	57,018

						2018						
		March					September			December		
Customer Type	 March \$	Cons.	June \$	June Cons.	Se	ptember \$	Cons.	De	cember \$	Cons.	Total \$	Total Cons.
Residential	\$ 108,184	10,237	\$ 107,015	10,064	\$	116,389	11,469	\$	106,503	9,935	\$ 438,091	41,705
Commercial	\$ 28,835	2,487	\$ 28,748	2,471	\$	29,183	2,524	\$	29,907	2,655	\$ 116,673	10,137
Industrial	\$ 13,484	1,663	\$ 9,227	1,006	\$	7,030	667	\$	7,128	682	\$ 36,870	4,018
Municipal	\$ 48,823	334	\$ 48,596	315	\$	47,857	206	\$	48,551	296	\$ 193,827	1,151
	\$ 199,327	14,721	\$ 193,586	13,856	\$	200,459	14,866	\$	192,088	13,568	\$ 3,056	Unbilled Revenue
											\$ (129)	Abatements
											\$ -	Other Adjustments

Recoupment

57,011

-

788,388

\$

\$

1604.01(a)(22) Projected Need for External Capital for the 2 year period immediately following the test year.

Pittsfield Aqueduct Company Capital Expenditure Budget - 2020

		otal Budgeted ount (including	
Project Name	Project Description	 O/H)	Funding Source
Berry Pond Dam Breach and ERP	NHDES required studies for Berry Pond Dam	\$ 7,000	Intercompany
New Services (1)	New Services (1)	\$ 5,000	Intercompany
Renewed Services (2)	Renewed Services (2)	\$ 11,000	Intercompany
Replacement Hydrants (2)	Repalce failed Hydrant (2)	\$ 12,000	Intercompany
Replacement/New Gate Valve (2)	Replacement/New Gate Vavle installation (2)	\$ 8,000	Intercompany
Radios New (1) Replace Failed (9)	Replace failed Radios (9), Meters for New customers (1)	\$ 1,000	Intercompany
Meters 5/8"-6" New(1) Replace Failed (6)	Meters 5/8"-6" New Meters - PAC (7)	\$ 700	Intercompany
Berry Pond DBP Treatment evaluation/design	Berry Pond DBP Treatment evaluation/design	\$ 20,000	Intercompany
Misc. structural improvements	Misc. structural improvements	\$ 10,000	Intercompany
PAC lab/Process equipment	PAC lab/Process equipment	\$ 10,000	Intercompany
Replace filter valve actuators, 3	Replace filter valve actuators, 3	\$ 4,000	Intercompany
Replace SCADA PLC	Equipment no longer supported by manufacturer	\$ 15,000	Intercompany
Switch Replacement for Pittsfield	Change out end of life switch in Pitts.	\$ 1,200	Intercompany
	Total Budgetted CAPEX	\$ 104,900	

Project Name	Project Description	Total 20	21 incl O/H	Funding Source
PAC Distribution Storage Tank	Design of 500,000 gallon concrete tank, Construction targeted for 2022	\$	40,000	Intercompany
New Services (1)	New Services (1)	\$	5,000	Intercompany
Renewed Services (2)	Renewed Services (2)	\$	11,000	Intercompany
Replacement Hydrants (2)	Repalce failed Hydrant (2)	\$	12,000	Intercompany
Replacement/New Gate Valve (2)	Replacement/New Gate Vavle installation (2)	\$	8,000	Intercompany
Radios New (1) Replace Failed (9)	Replace failed Radios (9), Meters for New customers (1)	\$	1,000	Intercompany
2021 Radios (90)	Year 1 of 7 year replacement of all PEU radios (all initial radios installed in 2007)	\$	12,000	Intercompany
Meters 5/8"-6" New(1) Replace Failed (6)	Meters 5/8"-6" New Meters - PAC (7)	\$	700	Intercompany
Misc. structural improvements	Misc. structural improvements	\$	10,500	Intercompany
PAC lab/Process equipment - four turbidimeters, 1 Chlorine analyzer	PAC lab/Process equipment - four turbidimeters, 1 Chlorine analyzer	\$	25,000	Intercompany
Replace filter valve actuators, 3	Replace filter valve actuators, 3	\$	4,000	Intercompany
	Total Budgetted CAPEX -	\$	129,200	

1604.01(a)(23) Capital Budget - Sources and Uses of funds for the 2 years immediately following the test year

Department		Project Description	Total Budgeted Amount (including O/H)	Funding Source
Engineering	2019 Carryover/Multi-year Projects		_	
Lignooning		Subtotal 2019 Carryover/Multi-year Projects	-	
Engineering	<u>New 2020 Projects</u> Breach and ERP	Breach and ERP	7.00	Intercompany
		Subtotal New 2020 Projects	7.00	
		Total 2020 Capital Projects Budget including 2019 carryover	7.00	
	2019 Carryover/Multi-year Projects	Project Description		Funding Source
T&D		Subtotal 2019 Carryover/Multi-year Projects	-	
T&D T&D T&D T&D T&D T&D T&D	New 2020 Projects New Services (1) Renewed Services (2) Hydrants (2) Gates (2) Radios (10) Meters 5/8"-6" New(1) Replace Failed (6)	New Services (1) Renewed Services (2) Hydrants (2) New Gates installation (2) Replace failed Radios (10) Meters 5/8"-6" New Meters - PAC (7)	5.00 11.00 12.00 8.00 1.00 0.70	Intercompany Intercompany Intercompany Intercompany Intercompany Intercompany
		Subtotal New 2020 Projects	37.70 37.70	
		Total 2020 Capital Projects Budget including 2019 carryover		
Water Supply	2019 Carryover/Multi-year Projects	Project Description	Total 2020 incl O/H	Funding Source
		Subtotal 2019 Carryover/Multi-year Projects	-	
Water Supply Water Supply Water Supply Water Supply Water Supply	New 2020 Projects Berry Pond DBP Treatment evaluation/design Misc. structural improvements PAC lab/Process equipment Replace filter valve actuators, 3 Replace SCADA PLC	Berry Pond DBP Treatment evaluation/design Misc. structural improvements PAC lab/Process equipment Replace filter valve actuators, 3 Equipment no longer supported by manufacturer Subtotal New 2020 Projects	20.00 10.00 4.00 15.00 59.00	Intercompany Intercompany Intercompany Intercompany
		Total 2020 Capital Projects Budget including 2019 carryover	59.00	
		Project Description	-	Funding Source
IT			-	
11		Subtotal 2019 Carryover/Multi-year Projects	-	
IT	PAC lab/Process equipment Switch Replacement for Pittsfield	Change out end of life switch in Pitts.	1.20	Bond
		New Gates installation (2)	1.20	
		Total 2020 Capital Projects Budget including 2019 carryover	1.20	
		2019 Carryover/Multi-year Projects - Total PAC New 2020 Projects - Total PAC Total Capital Budget - PAC	- 104.90 104.90	

Pittsfield Aqueduct Company, Inc. Capital and Construction Budget 2021

Provided pursuant to NHPUC Rule 1604.01(23)

Department		Project Description	Total Budgeted Amount (including O/H)	Funding Source
Engineering	2020 Carryover/Multi-year Projects		-	
		Subtotal 2020 Carryover/Multi-year Projects	-]
Engineering	<u>New 2021 Projects</u> Design - 500,000 Gallon Concrete Tank	Design - 500,000 Gallon Concrete Tank	40.00	SRF
		Subtotal New 2021 Projects	40.00	
		Total 2021 Capital Projects Budget including 2020 carryover	40.00	

		Project Description	Total 2021 incl O/H	Funding Source
	2020 Carryover/Multi-year Projects			
T&D			-	
		Subtotal 2020 Carryover/Multi-year Projects	-]
	New 2021 Projects			
T&D	New Services (1)	New Services (1)	5.00	Intercompany
T&D	Renewed Services (2)	Renewed Services (2)	11.00	Intercompany
T&D	Hydrants (2)	Hydrants (2)	12.00	Intercompany
T&D	Gates (2)	New Gates installation (2)	8.00	Intercompany
T&D	Radios (10)	Replace failed Radios (10)	1.00	Intercompany
T&D	2021 Radios (90)	Begin 7 year replacement of all PEU radios (all initial radios installed in 2007)	12.00	Intercompany
T&D	Meters 5/8"-6" New(1) Replace Failed (6)	Meters 5/8"-6" New Meters - PAC (7)	0.70	Intercompany
			-	
		Total 2021 Capital Projects Budget	49.70	-
		Total 2021 Capital Projects Budget including 2020 carryover	49.70	

		Project Description	Total 2021 incl O/H	Funding Source
Water Supply	2020 Carryover/Multi-year Projects		-	
		Subtotal 2020 Carryover/Multi-year Projects	-]
	New 2021 Projects			
Water Supply	Misc. structural improvements	Misc. structural improvements		Intercompany
Water Supply	PAC lab/Process equipment	PAC lab/Process equipment		Intercompany
Water Supply	DBP treatment	DBP treatment	100.00	Intercompany
			-	
			-	
		Subtotal New 2021 Projects	120.00	
		Total 2021 Capital Projects Budget including 2020 carryover	120.00	
				-

2020 Carryover/Multi-year Projects - Total PAC

New 2021 Projects - Total PAC Total Capital Budget - PAC

-
209.70
209.70

1604.01(a)(24) Outstanding Short-Term Debt on Monthly Basis for Each Indebtedness

See prior tab (TAB 13) for schedules 1604.08 and in particular Schedule 6, Cost of Short Term Debt.

1604.01(a)(25) Certificate of Details of Management Fee Information. [If a utility is a subsidiary, a certificate of an appropriate official of the subsidiary detailing any expense of the parent company which was included in the subsidiary's cost of serv

See Tabs 3 and 33.

Summary or Rate Case Expense Estimates

DW 20-153 Pittsfield Aqueduct Company, Inc. Rate Case Expense Report

Puc 1905.01(a)

Pursuant to N.H. Code Admin. R. Puc 1905.01(a), Pittsfield Aqueduct Company, Inc. (PAC) hereby provides the following rate case expense information:

1. Puc 1905.01(a)(1)(a), The name of the service provider

N.H. Brown Law, PLLC

2. Puc 1905.01(a)(1)(b), The procurement process

PAC conducted a thorough, competitively bid selection process to secure outside consultant services for its rate case. PAC solicited proposals and interviewed multiple firms. PAC selected N.H. Brown Law, PLLC for its legal services.

3. Puc 1905.01(a)(1)(c), The amount of the expense

To date, PAC has incurred approximately \$5,000 in legal fees.

4. Puc 1905.01(a)(1)(d), A description of the charge or service rendered

NH Brown Law, PLLC provides legal services in connection to PAC's rate case.

5. Puc 1905.01(a)(2) A list of all services to be rendered on behalf of the utility in the full rate case by any vendor; and

There are no additional vendors than who have been listed above.

6. Puc 1905.01(a)(3), The total estimated costs of each service.

NH Brown Law, PLLC legal fees are projected to cost \$65,000.